ELSEVIER

Process Biochemistry 37 (2002) 1481–1484

PROCESS BIOCHEMISTRY

www.elsevier.com/locate/procbio

Author Index

A
Acero, J. L., 257
Acevedo, F., 1051
Agelli, M., 937
Agosin, E., 1033
Agu, R. C., 851
Ahmad, D., 955
Ahn, J. E., 279
Ahn, J.-H., 589
Akçael, B., 35
Aksu, Z., 747
Al-Adhami, A. J. H., 1387
Aleksieva, Z., 1215
Alemzadeh, I., 447
Ali, D., 371
Ali, S., 1085
Almeida, P. I. F., 461
Altıntaş, M. M., 1439
Alves Bueno, S. M., 1413
Alves, C. F., 837
Alves, M. M., 387, 1025
Amorim, M. T. P., 581
An, L., 793
Aranguiz, I., 813
Arıca, M. Y., 601
Arican, B., 1307
Ariza, J., 1
Arpa, Ç., 601
Arreguy, A., 813
Aruna, N., 431
Ashokkumar, B., 331
Atala, D. I. P., 125
Atallah, M. T., 1285
Atanasov, B., 1215
Ateş, S., 759
Azaola, A., 513
Azzoni, A. R., 1413

B
Babaeipour, V., 909
Bali, U., 1317
Banerjee, R., 1395
Bang, J. S., 411
Bansal, D., 359
Bao, Y., 793
Barona, A., 813
Barranco-Florido, E., 513
Barrios-González, J., 881
Barros de Genaro, A. C., 1413
Batsilas, L., 73
Bautista, J., 229
Bayraktar, E., 169, 759
Beg, Q. K., 1103
Belin, J. M., 177
Beltran, S., 659
Beolchini, F., 115
Bhattacharyya, B. C., 1395
Bissoon, S., 567
Blandino, A., 497
Błaszczyk, M., 57
Bohdziewicz, J., 57
Bompas, D., 177
Borghi, M. D., 423
Borja, R., 483, 699
Bryjak, J., 1387
Bueno, S. M. A., 573
Bugarski, B., 17
Buzzell, D., 1117
Bvochora, J. M., 365

C
Cabaleiro, D. R., 1017
Cabrera, F., 1143
Camacho Rubio, F., 1169
Canales, C., 1051
Cantero, D., 497
Cardoso, A. A., 111
Cardoso Duarte, J., 821
Cavaleiro, A. J., 387
Chaires, J. B., 521
Chang, C.-S., 299
Chang, I. S., 411
Chang, I.-S., 915
Chang, W.-S., 693
Chauvatcharin, S., 209
Chen, F., 1447
Chen, J., 219
Chen, K. M., 595, 1129
Choi, H. K., 679
Chou, C. P., 23
Choue, R. W., 339
Cho, Y. J., 1257, 1325
Christov, L., 567
Chu, H. C., 595, 1129
Chung, B. H., 339
Chung, K. H., 153
Chun, U.-H., 339
Cira, L. A., 1359
Converti, A., 423
Corpas, R., 229
Cortés, D., 881
Costa, A. C., 125
Costa-Ferreira, M., 581
Couto, S. R., 549
Crabbe, E., 65
Cremades, O., 229
Curreli, N., 937
Cusidó, J. A., 535

D
Dasgupta, S., 51
Da Silva, R., 949
Das, S., 51
Day, D. F., 739
Díaz, J., 1
DeGrandis, S., 1117
Denizli, A., 601
Dey, S., 51
Diaz, M. J., 1143
Dilek, F. B., 723
Dini, J. P., 1117
Doğan, Ş., 1111
Domínguez, A., 549
Domínguez, H., 1067
Dondo, R. G., 379
Dravillas, K., 497
Du, G., 219
Dursun, A. Y., 747
Dzene, A., 719

E
Eker, S., 1201
Elias, A., 813
Elibol, M., 1381
Emelyanova, E. V., 683
Erbay, A., 723
Espe, M., 1263
Esposito, A., 115
Eugenio, M. E., 1
Eusebio, A., 821

F
Fahmi, A., 1403
Fang, Q.-H., 769, 1375

PII: S0032-9592(02)00129-2

Fang, T. J., 1235
Fang, W.-L., 23
Faulkner, H., 1117
Federici, F., 821
Ferrer, J. L., 665
Fitzpatrick, J. J., 183
Fontes, E. A. F., 267
Fontiveros, E., 229
Foresti, E., 927
Forster, C. F., 589, 965
Fujie, K., 943
Fu, L.-y., 1151

G
Galabova, D., 753
Ganguli, A., 857
García-Garibay, M., 513
García, J. C., 665
García, M. A., 1195
Garcia, J., 257
Garcia, O., Jr, 111
Garrido Hoyos, S. E., 1169
Garrote, G., 1067
Gelmi, C., 1033
Genç, Ö., 601
Gentina, J. C., 1051
Gercberga, Z., 719
Ghosh, M., 857
Giordano, R. C., 1297
Gòdia, F., 535
Godjevargova, T., 1215
Gokcay, C. F., 1307
Gomes, E., 949
Gómez-Ruiz, L., 513
González, P., 659
González-Sanjosé, M. L., 659
Gonzalez, T., 257
Greb-Markiewicz, B., 1387
Grigorjeva, L., 505
Guerra, N. P., 1005
Gu, G., 81
Gunasekaran, P., 331
Gupta, J. K., 1075
Gupta, L. K., 1075
Gupta, M. N., 193
Gupta, R., 187, 1103
Gutierrez, J. F., 229
Güven, O., 1351
Gyo Lee, E., 293

H
Hall, G. M., 1359
Han, J., 209
Haq, I.-U., 1085
Hari Krishna, S., 9
Hatvani, N., 491
Hayashi, Y., 1229
Hegemann, W., 831
Hernández, A., 1125, 1195
Hirasawa, K., 31
Hong, S.-I., 1367
Hong, S. S., 679
Hong, S.-W., 693
Ho, Y. S., 1421
Hrdina, R., 581
Huang, C. T., 1421
Huang, H. W., 1421
Huang, S.-W., 23
Huang, X., 943
Huerta, S., 1359
Hu, H.-Y., 943
Hujanen, M., 1207
Husson, F., 177
Hu, W. C., 965
Hwang, H. J., 1257
Hyun Chung, B., 293

I
Iconomopoulou, M., 707
Idrees, S., 637
Iefuji, H., 405
Iglesias, F., 229
Ilieva, S., 753
Iqbal, J., 1085
Irudayaraj, J., 371
Ishizaki, A., 65
Işikver, Y., 651
Işıkver, Y., 1351
Ivanova, D., 1215
Ivanova, V., 863

J
Jackson, C.-J. C., 1117
Jang, K.-H., 339
Javier Benitez, F., 257
Jiang, Y., 1447
Jianlong, W., 831, 847
Jiménez, L., 1, 665
Jin, F., 793
Johnvesly, B., 139
Joo, H.-S., 299
Joshi, A. P., 395
Jover, M., 229
Judd, S. J., 915
Juneson, C., 305
Junter, G.-A., 895

K
Kaçar, Y., 601
Kaghazchi, T., 629
Kamini, N. R., 405
Kanellaki, M., 707
Kang, I. S., 679
Kapdan, I. K., 973
Karadağ, E., 1351
Karanth, N. G., 9
Kar, B., 1395
Kargı, F., 1201
Kargi, F., 973
Kayalvizhi, N., 331
Kermasha, S., 177
Keung, W., 731
Kida, K., 1403
Kim, B. H., 411
Kim, C., 279
Kim, C. H., 339
Kim, J. H., 679
Kim, J.-H., 1367
Kim, J. M., 287
Kim, S. W., 153, 1257
Kim, S.-W., 1367
Kim, Y. I., 153
Kim, Y. M., 1257
Kılıç, M., 759
Kobayashi, G., 65
Koenig, A., 885
Koizumi, K.-i., 31
Koutinas, A. A., 707
Kırdar, B., 527, 1157, 1439
Krupyanko, V. I., 1183
Kulaev, I. S., 643, 799
Kulakovskaya, T. V., 643, 799
Kulkarni, B. D., 395, 1343
Kurane, R., 31
Kusano, K., 351
Kutsal, T., 35
Kyriakidis, D. A., 73

L
Lachhab, K., 197
Lali, A., 431
Lan, W.-Z., 477
Lavandier, C., 1117
Lee, C., 339
Lee, H. S., 679
Lee, K. S., 339
Lee, S.-T., 1367
Lee, Y. S., 1257
Leisola, M., 1207
Leskošek-Čukalović, I., 17
Liakopoulou-Kyriakides, M., 73
Liaset, B., 1263
Lichko, L. P., 799
Lied, E., 1263
Lim, B.-R., 943

Lim, W. J., 287
Lin, W.-J., 23
Lin, Y.-H., 23, 775, 1455
Liping, H., 831
Liu, L. H., 885
Li, Y., 81
Li, Z., 165
Longo, M. A., 1017
López, F., 1, 1143
López, R., 1143
Lovitt, R. W., 411
Lun, S., 219
Lv, C., 901

M
Maciel, R., 125
Madejón, E., 1143
Ma, P., 1431
Markelova, N. Y., 1177
Marín, M., 1125
Marqués, D., 379
Martinez Nieto, L., 1169
Martins, E. S., 949
Martín, A., 483, 699
Martín, M. A., 699
Maruhashi, K., 31
Matsui, T., 31
Maugeri, F., 125
Mécs, I., 491
Mehmannavaz, R., 955
Mehmetoglu, Ü., 759
Melo, L. F., 837
Millers, D., 505
Miranda, E. A., 573, 1413
Montesinos, J. L., 535
Moo-Young, M., 1271
Morimura, S., 1403
Morishita, M., 351
Morist, A., 535
Mota, M., 387, 1025
Muñiz, P., 659
Muter, O., 505, 719

N
Nadarajah, N., 1135
Nagata, H., 1403
Nahid, P., 447
Naik, G. R., 139
Nand, K., 241, 359
Narita, J., 351
Nedović, V. A., 17
Nikolaeva, V., 719
Nolasco-Hipolito, C., 65
Nortvedt, R., 1263
Nwankwo, L. N., 851

O
Obradović, B., 17
Odibo, F. J. C., 851
Ogawa, H. I., 351
Oh, K.-K., 1367
Ohsumi, Y., 351
Oh, T.-K., 471
Oh, Y.-K., 521
O'Keeffe, U., 183
Okpuzor, J. E., 787
Oliveira, R., 345
Omidiji, O., 787
Önsan, Z., 1157
Önsan, Z. İ., 527, 1439
Oprime, M. E. A. G., 111
Özbek, B., 87
Öztop, A. Y., 651, 1351
Öztop, H. N., 651, 1351

P
Pagnanelli, F., 115
Paik, S. R., 299
Palazzi, E., 423
Pandiella, S. S., 497
Papagianni, M., 73, 1271
Parajó, J. C., 1067
Paras, S. V., 73
Park, B.-S., 339
Park, G.-C., 299
Park, J., 693
Park, J.-P., 471
Park, J. P., 1257
Park, S. W., 153
Passos, F. J. V., 267
Passos, F. M. L., 267
Pastrana, L., 1005
Patnaik, P. R., 145
Peczyńska-Czoch, W., 1387
Peñas, J., 813
Pereira, M. A., 1025
Pérez-Correa, R., 1033
Pérez, I., 1, 665
Pešić, R., 17
Petruccioli, M., 821
Pillay, B., 1221
Pisu, B., 937
Pochanavanich, P., 727
Poysa, V., 1117
Prasad, M. S., 359, 611
Prasher, S. O., 955
Psarianos, K., 707
Psomas, S. K., 73

Q
Qadeer, M. A., 1085
Qian, Y., 1151
Qin, W.-M., 477

R
Rajoka, M. I., 637
Ramos Cormenzana, A., 1169
Randhir, R., 1247, 1247
Rao, C. S., 247
Rapoport, A., 505
Raposo, F., 699
Rathi, P., 187
Ratusznei, S. M., 1297
Ravishankar, G. A., 623
Ray, S., 51
Reddy, P., 1221
Reddy, V., 1221
Rescigno, A., 937
Resende, M. M., 1297
Reshetilov, A. N., 683
Rhee, J. I., 275
Rhee, S.-K., 339
Rinaldi, A., 937
Rios, J., 813
Rivela, I., 549
Rodríguez, A., 665
Rodríguez-Couto, S., 1017
Rodríguez, I., 1195
Rupasinghe, H. P. V., 1117
Ryu, H.-W., 235

S
Sae-Tang, P., 209
Sağ, Y., 35
Saha, B. C., 1279
Sainkar, S. R., 395
Saleemuddin, M., 275
Sánchez, E., 483
Sanjust, E., 937
Sankpal, N. V., 395, 1343
Sanromán, A., 1017
Sanromán, M., 549
Sarada, R., 623
Saraydin, D., 651
Saraydın, D., 1351
Sattur, A. P., 9
Satyanarayana, T., 999
Saude, N., 895
Savenkova, L., 719
Saxena, R. K., 187, 1103
Saygılı, B., 1157
Schugerl, K., 275
Segura, R., 1195
Sene, L., 423
Şengül, F., 1317
Sharma, A., 193
Sharma, R., 1075

Shastry, S., 611
Shetty, K., 805, 1247, 1247, 1285
Shetty, P., 1247, 1247, 1285
Shigematsu, T., 1403
Shin, C. S., 279
Shirai, K., 1359
Shirai, Y., 351
Shojaosadati, S. A., 909
Silva, A. J., 927
Silva, D., 949
Singh, A., 305, 1135
Singh, H., 453
Singh, S., 567, 1221
Sivakesava, S., 371
Si, Y., 731
Smirnov, A. V., 643
Soares, G. M. B., 581
Soleimani, M., 629
Song, B.-D., 1229
Song, C. H., 1257
Song, K.-B., 339
Soni, S. K., 453, 1075
Sonomoto, K., 65
Soon Won, H., 293
Sousa, R., Jr, 461
Spasova, D., 863
Sponza, D. T., 983, 1091
Strycharz, S., 805
Suh, D., 521
Suh, H. J., 287
Suntornsuk, L., 727
Suntornsuk, W., 727
Swaroopa Rani, D., 241

T
Tae Kim, K., 299
Talukder, M. M. R., 1229
Tamagawa, R. E., 1413
Tam, N. F. Y., 869, 1057
Tang, Y., 901
Tang, Y.-J., 1375
Tanriseven, A., 1111
Tan, S., 601
Teixeira, P., 345
Terpstra, M., 97, 555, 921, 1463
Thayanithy, K., 965
Thirumale, S., 241
Tian, L., 1431
Tiquia, S. M., 869, 1057
Todorova, K., 753
Toksoy, E., 527
Tomasini, A., 881
Tonkova, A., 863
Toro, L., 115
Torres Suazo, C. A., 1297
Travieso, L., 483
Trifoni, M., 115
Trifunović, O., 17
Tripathi, A. K., 857
Tripathi, U., 623
Tsekova, K., 753
Tupureina, V., 719
Tyagi, R. D., 197

U
Uemura, Y., 1403
Ülgen, K. Ö., 1157, 1439
ul-Haq, I., 637
Uzunova, K., 863

V
Valéro, J. R., 197
Valls-Bellés, V., 659
Vançan, S., 573
Varesche, M. B., 927
Varshney, H., 275
Vassileva, A., 863
Vega, J., 229
Vegliò, F., 115
Ventina, E., 505
Vieira, M. J., 837
Vijayendra, S. V. N., 359
Vohra, A., 999
Vohra, R. M., 1075
von Weymarn, N., 1207
Vossoughi, M., 447

W
Wang, J.-M., 1235
Wang, L., 901
Wang, Q., 351
Wang, S.-C., 1229
Wang, W., 901
Wan, J. H. C., 1057
Ward, O. P., 305, 1135
Wąsik, E., 57
Webb, C., 497
Weiland, P., 483
Wen, X.-h., 1151
Wen, Z.-Y., 1447
Wong, I., 1195
Wong, R., 731
Woragidbumrung, K.-o., 209
Wu, J.-C., 1229

X
Xiangchun, Q., 831
Xing, A.-H., 1229
Xu, H.-B., 477
Xu, L.-j., 1151

Y
Yamabe, K., 351
Yang, S., 901
Yao, H., 209
Yetis, U., 723, 1307
Yi, Q., 831
Yoo, S. K., 739
Yüceer, S., 87
Yu, H., 81, 793
Yu, J., 219, 731
Yu, L.-J., 477
Yun, J.-S., 235
Yun, J.-W., 471
Yun, J. W., 1257, 1325

Z
Zaiat, M., 927
Zare, A., 629
Zhang, C., 793
Zhang, X., 165
Zhao, H., 165
Zhao, J., 81
Zhao, Y., 775, 1455
Zhong, J.-J., 209, 769, 1375, 1431
Zilli, M., 423
Zokaee, F., 629
Zvauya, R., 365

ELSEVIER

Process Biochemistry 37 (2002) 1485–1509

PROCESS BIOCHEMISTRY

www.elsevier.com/locate/procbio

Subject index

Volume 37 (2002)

Absorbance additivity; *Bacillus subtilis*; Turbidimetric; Torula yeast; Suspensions; Bacterial growth **prbi**, 1125

Accumulation; *Halobacterium salinarium*; Phosphate; Polyphosphate; Reserve **prbi**, 643

Acetogen; *Eubacterium limosum*; Carbon monoxide; Synthesis-gas; Mass transfer limitation; Organic acid **prbi**, 411

Acetyl groups; Autohydrolysis; Corncobs; *Eucalyptus globulus*; Hemicelluloses; Severity factor; Xylan **prbi**, 1067

Acid inhibition modeling; Polyhydroxyalkanotes; PHAs; Biodegradable polymers; Volatile fatty acids; *R. eutropha* **prbi**, 731

Acinetobacter sp; Toluene; Styrene; Biofiltration; Deodorization; *Rhodococcus rhodochrous* **prbi**, 423

Acrylamide/maleic acid; Hydrogel; Radiation; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 1351

Actinorhodin; *Streptomyces coelicolor*; Product shifting; pH control; Undecylprodigiosin **prbi**, 1381

Activated sludge; Aeration; Fouling; Flux; Membrane bioreactor; Sparging **prbi**, 915

Activated sludge; Biomass; Basic dyes; Adsorption capacity; Chemical structure; Film diffusion **prbi**, 595

Activated sludge biomass; Rate processes; Adsorption rate; Boundary layer; Intraparticle diffusion; Activation energy **prbi**, 1129

Activated sludge; Biosorption; Dilution rate; Heavy metals; Linear isotherm; Nickel **prbi**, 1307

Activated sludge; Winery wastewater; Jet-loop reactor; Aerobic treatment **prbi**, 821

Activation energy; Activated sludge biomass; Rate processes; Adsorption rate; Boundary layer; Intraparticle diffusion **prbi**, 1129

Active clay; Paclitaxel; Plant cell culture; Precipitation; Prepurification **prbi**, 679

Adsorption; Alkaline protease; Diaion HP 20; Hydrophobic chromatography; Polychaeta; Purification **prbi**, 299

Adsorption capacity; Biomass; Activated sludge; Basic dyes; Chemical structure; Film diffusion **prbi**, 595

Adsorption rate; Activated sludge biomass; Rate processes; Boundary layer; Intraparticle diffusion; Activation energy **prbi**, 1129

Aeration; Activated sludge; Fouling; Flux; Membrane bioreactor; Sparging **prbi**, 915

Aeration; Hemicellulases; Xylanase; *Thermomyces lanuginosus* **prbi**, 1221

Aeration rate; *Cordyceps militaris*; *exo*-biopolymers; Morphology; Submerged culture **prbi**, 1257

Aeration rate; Ligninolytic enzymes; Nylon sponge; *Phanerochaete chrysosporium*; Rotating drum bioreactor; Solid-state fermentation **prbi**, 549

Aerobic biological treatment; Phthalocyanine dye; Reactive Turquoise Blue; Anaerobic biological treatment; Biosorption; Biodegradation **prbi**, 1151

Aerobic treatment; Winery wastewater; Jet-loop reactor; Activated sludge **prbi**, 821

***Aeromonas* strain**; Distillery spentwash; Chemical oxygen demand reduction; Colour removal; *Pseudomonas putida*; *Chlorella vulgaris* **prbi**, 857

Affinity; IMAC; IgG; Purification; Human plasma; Chromatography **prbi**, 573

Affinity; IMAC; Purification; Aprotinin; Negative chromatography **prbi**, 1413

Agaricus bisporus; Lipoxygenase; Hydroperoxide lyase; Biogeneration; 1-octen-3-ol **prbi**, 177

Agitation; Xanthan; Fermentation kinetics; Pyruvate; Molecular weight **prbi**, 73

Agriculture product; Sorption; Copper; Zinc; Lead; Tree fern **prbi**, 1421

Airlift bioreactor; *Panax notoginseng*; Ginseng polysaccharide; Conditioned medium; Plant cell suspension culture **prbi**, 209

Alfalfa; Phytoremediation; Rhizosphere; Rhizobia; Polychlorinated biphenyls **prbi**, 955

PII: S0032-9592(02)00130-9

Alginate; *Azotobacter vinelandii*; Bioproduction; Exopolysaccharide; Immobilized cells; Macromolecular weight **prbi**, 895

Alginate beads; Hg(II); Cd(II); Heavy metal; Entrapment; Biosorbent; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Alginate fibre; Dextransucrase; Immobilization; Isomaltooligosaccharides **prbi**, 1111

Alkaline lipase; *Burkholderia cepacia*; Detergent formulation; Oxidizing agents **prbi**, 187

Alkaline; Lipase; Thermophilic; *Bacillus* sp; Purification; Thermostable **prbi**, 1075

Alkaline protease; Adsorption; Diaion HP 20; Hydrophobic chromatography; Polychaeta; Purification **prbi**, 299

Alkaline protease; *Bacillus mojavensis*; Regulation; Fed-batch; De-repression **prbi**, 1103

Alkaline protease; Thermostable; Synthetic medium; Alkalophilic; *Bacillus* spp. **prbi**, 139

Alkalinity; Autotrophic denitrification; Limestone dissolution; Nitrate removal; pH control; Sulphur/limestone reactor **prbi**, 885

Alkalophilic; Thermostable; Alkaline protease; Synthetic medium; *Bacillus* spp. **prbi**, 139

Amino acid resolution; pH-auxostat; *Corynebacterium glutamicum*; Metabolic flux; ATP; Reducing equivalents **prbi**, 1455

Amino acids; Extraction; Liquid membrane; Response surface methodology **prbi**, 169

Amino acids; pH-auxostat; Flux partitioning; Fermentation **prbi**, 775

α-Amylase enzyme inactivation; Wheat starch hydrolysis; Process variables; Mathematical modelling; Stirred batch bioreactor **prbi**, 87

Amyloglucosidase; *Aspergillus oryzae*; Glucoamylase; Solid-state fermentation; Starch-gel digestion **prbi**, 453

Amylolytic enzymes; Recombinant yeast; Starch bioconversion; Ethanol; Fermentation; Fed-batch **prbi**, 1157

Anaerobic biological treatment; Phthalocyanine dye; Reactive Turquoise Blue; Aerobic biological treatment; Biosorption; Biodegradation **prbi**, 1151

Anaerobic; *Clostridium papyrosolvens*; Induction; Cellulase; Fermentation **prbi**, 241

Anaerobic digestion; Mesophilic; Thermophilic; Temperature; Shock; Wastewater **prbi**, 589

Anaerobic digestion; Organic substrate removal; Washing wastewater black olives; Chemical treatments **prbi**, 257

Anaerobic digestion; Piggery waste; Substrate concentration; Mesophilic and tropical climate temperatures **prbi**, 483

Anaerobic digestion; Process kinetics; Ice-cream wastewater; Monod equation; Contois equation **prbi**, 965

Anaerobic digestion; Wastewater; Vinasse; Kinetics; Ozone; UV **prbi**, 699

Anaerobic filter; Expanded granular sludge bed; Oleic acid; Long chain fatty acid **prbi**, 1025

Anaerobic filters; Long-chain fatty acids; Methanogenic activity; Oleic acid toxicity; Shocks **prbi**, 387

Anaerobic; Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Treatment; UASB **prbi**, 1091

Anaerobic process; Wastewater treatment; Sulphate reduction; Fixed-bed reactor; Polyurethane foam **prbi**, 927

Analysis of variance; Immobilization; GL-7-ACA acylase; Modification of glutaraldehyde; Optimization; Response surface methodology **prbi**, 153

Animal manure; Composts; Forced-aeration; Compost maturity; N loss **prbi**, 869

Anoxic; Degradation; Denitrifier; Nitrate; Nitrogeneous heterocyclic compounds; Molecular connectivity index **prbi**, 81

Antibacterial activity; Lactic acid bacteria; Nisin; Pediocin; Primary metabolite; Stability **prbi**, 1005

Antibiotic; Fed-batch culture; Cephalosporin C; Fuzzy logic; Supervisory control; Inverted sucrose feeding **prbi**, 461

Antioxidant activity; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Levo dihydroxy phenylalanine **prbi**, 1247

Antioxidant activity; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Levo dihydroxy phenylalanine **prbi**, 1247

Antioxidant activity; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Proline; Guaiacol peroxidase **prbi**, 1285

Antioxidant enzymes; Epicatechin; Glutathione; *Tert*-butylhydroperoxide **prbi**, 659

Apple pomace; Citric acid; Multiplayer packed bed solid-state bioreactor **prbi**, 909

Aprotinin; IMAC; Purification; Negative chromatography; Affinity **prbi**, 1413

Aqueous medium; Lipase; Methanolysis; Vegetable oils; *Cryptococcus* spp.; Rice bran oil **prbi**, 405

A. rhizogenes; *Mentha pulegium*; Phenolics; Peroxidase; Poly R-478; Phytoremediation **prbi**, 805

Aspartame; Enzymic reaction; Thermolysin; Eutectic mixture **prbi**, 279

Aspergillus awamori; Pectinases; *Rhizopus stolonifer*; Submerged culture; Whole wheat flour; Cereal raw material **prbi**, 497

Aspergillus niger; Copper uptake; Phosphatase activity **prbi**, 753

Aspergillus niger; β-Fructofuranosidase; Invertase; Sucrase; Solid-state fermentation; Media optimization **prbi**, 331

Aspergillus niger; Gluconic acid; Cellulose microfibrils; Immobilization **prbi**, 1343

Aspergillus niger; Proteases; Glucoamylase; Fungal morphology; Inoculum **prbi**, 1271

Aspergillus oryzae; Amyloglucosidase; Glucoamylase; Solid-state fermentation; Starch-gel digestion **prbi**, 453

Aspergillus terreus; Degradation; Elimination rate; Kinetics; Olive-mill waste **prbi**, 1169

Astaxanthin; Culture age; *Haematococcus pluvialis*; Salinity stress **prbi**, 623

Astaxanthin; *Phaffia rhodozyma*; *Xanthophyllomyces dendrorhous*; Two-stage batch fermentation; Mixed-cultures **prbi**, 1235

ATP; pH-auxostat; *Corynebacterium glutamicum*; Metabolic flux; Reducing equivalents; Amino acid resolution **prbi**, 1455

Autohydrolysis; Acetyl groups; Corncobs; *Eucalyptus globulus*; Hemicelluloses; Severity factor; Xylan **prbi**, 1067

Autotrophic denitrification; Alkalinity; Limestone dissolution; Nitrate removal; pH control; Sulphur/limestone reactor **prbi**, 885

Azotobacter chroococcum; Biodegradation; Plasticizer; Poly-β-hydroxybutyrate; Pesticides **prbi**, 719

Azotobacter vinelandii; Alginate; Bioproduction; Exopolysaccharide; Immobilized cells; Macromolecular weight **prbi**, 895

Bacillus cereus; Keratinolytic protease; *Bacillus subtilis*; *Bacillus pumilis* **prbi**, 287

***Bacillus macerans* EG-6**; Transfructosylating enzyme; Fructooligosaccharide; Purification **prbi**, 471

Bacillus mojavensis; Alkaline protease; Regulation; Fed-batch; De-repression **prbi**, 1103

Bacillus pumilis; Keratinolytic protease; *Bacillus subtilis*; *Bacillus cereus* **prbi**, 287

***Bacillus* sp**; Alkaline; Lipase; Thermophilic; Purification; Thermostable **prbi**, 1075

***Bacillus* spp.**; Thermostable; Alkaline protease; Synthetic medium; Alkalophilic **prbi**, 139

Bacillus subtilis; Absorbance additivity; Turbidimetric; Torula yeast; Suspensions; Bacterial growth **prbi**, 1125

Bacillus subtilis; Keratinolytic protease; *Bacillus pumilis*; *Bacillus cereus* **prbi**, 287

Bacillus thuringiensis; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Bacteria; Bis(2-ethylhexyl) phthalate; Soil slurry; Sequencing batch reactor; Biodegradation **prbi**, 305

Bacterial growth; *Bacillus subtilis*; Absorbance additivity; Turbidimetric; Torula yeast; Suspensions **prbi**, 1125

Bacteria; Mixed culture; Crude oil; Water-in-oil emulsions; De-emulsification; Surfactant **prbi**, 1135

Bagasse pulp; Biobleaching; Xylanase; *Thermomyces lanuginosus*; Chlorine dioxide **prbi**, 567

Baggase; Lipases; *Rhizopus*; Meals; Oils; Sugarcane **prbi**, 637

Bakers yeast; Biopack; Rotating biological contactors; High strength wastewater; Wastewater treatment **prbi**, 447

Barium alginate; *Kluyveromyces marxianus*; Immobilized cells; Inulinase; Diffusion coefficient; Thiele module **prbi**, 513

Basic dyes; Biomass; Activated sludge; Adsorption capacity; Chemical structure; Film diffusion **prbi**, 595

Bead size; Microbeads; Cell growth; Mass transfer limitations; Electrostatic bead generator; Brewing yeast **prbi**, 17

Benzothiophene; Desulphurization; Degradation; Flavin–oxidoreductase; Nocardioform; Recombinant bacteria **prbi**, 31

Bifunctional fusion protein; Recombinant yeast; Starch bioconversion; Cybernetic modelling; Substitutable substrates **prbi**, 1439

Bifunctional protease/amylase inhibitor; Three phase partitioning; *t*-Butanol **prbi**, 193

Bioadsorption; Isotherm; Mechanism; Waste biomass; Copper; *Saccharomyces cerevisiae* **prbi**, 847

Biobleaching; Xylanase; *Thermomyces lanuginosus*; Bagasse pulp; Chlorine dioxide **prbi**, 567

Biochemical properties; Polyphosphate metabolism; Polyphosphatase; *Microlunatus phosphovorus* **prbi**, 799

Bioconversion; α-Pinene; β-Pinene; Perillic acid; Cumic acid; Monoterpenes; Resting cells **prbi**, 739

Biodegradability; Compost; Vinasse; Compost kinetic; Grape marc **prbi**, 1143

Biodegradable polymers; Polyhydroxyalkanotes; PHAs; Volatile fatty acids; Acid inhibition modeling; *R. eutropha* **prbi**, 731

Biodegradation; *Azotobacter chroococcum*; Plasticizer; Poly-β-hydroxybutyrate; Pesticides **prbi**, 719

Biodegradation; Biofiltration; Hydrogen sulphide; Packing material; Elemental sulphur; Biofilter **prbi**, 813

Biodegradation; Bis(2-ethylhexyl) phthalate; Bacteria; Soil slurry; Sequencing batch reactor **prbi**, 305

Biodegradation; Co-metabolism; Quinoline; Glucose; Kinetics; *Burkholderia pickettii* **prbi**, 831

Biodegradation; Phenanthrene; *Pseudomonas mendocina*; Kinetic study; Polycyclic aromatic hydrocarbon dioxygenase; Catechol-2,3-oxygenase **prbi**, 1431

Biodegradation; Phenol derivatives; *Trichosporon cutaneum*; Cometabolism **prbi**, 1215

Biodegradation; Phthalocyanine dye; Reactive Turquoise Blue; Anaerobic biological treatment; Aerobic biological treatment; Biosorption **prbi**, 1151

Biodegradation; *Pseudomonas testosteroni* CPW301; *Pseudomonas solanacearum* TCP114; Phenol; 4-chlorophenol; 2,4,6-Trichlorophenol; Packed bed reactor **prbi**, 1367

Biodiesel; Diesohol; Palm oil; Methyl ester; Extractant; Transesterification **prbi**, 65

Biofilm activity; Denitrification; Rotating biological contactor; Disks submergence; Biofilm composition **prbi**, 345

Biofilm characteristics; Biofilm fluidised reactors; Denitrification; Density; Carbon/Nitrogen ratio; Phosphorus **prbi**, 837

Biofilm composition; Denitrification; Rotating biological contactor; Disks submergence; Biofilm activity **prbi**, 345

Biofilm fluidised reactors; Denitrification; Biofilm characteristics; Density; Carbon/Nitrogen ratio; Phosphorus **prbi**, 837

Biofilter; Biodegradation; Biofiltration; Hydrogen sulphide; Packing material; Elemental sulphur **prbi**, 813

Biofilter; Coke-oven wastewater; Microbial population; Microbial diversity; *Pseudomonas putida*; Quinone profile; Seawater; Treatment performance **prbi**, 943

Biofiltration; Biodegradation; Hydrogen sulphide; Packing material; Elemental sulphur; Biofilter **prbi**, 813

Biofiltration; Toluene; Styrene; Deodorization; *Acinetobacter sp*; *Rhodococcus rhodochrous* **prbi**, 423

Biogeneration; *Agaricus bisporus*; Lipoxygenase; Hydroperoxide lyase; 1-octen-3-ol **prbi**, 177

Biological aerated filter; Textile wastewater treatment; Natural zeolite **prbi**, 693

Biomass; Activated sludge; Basic dyes; Adsorption capacity; Chemical structure; Film diffusion **prbi**, 595

Biopack; Bakers yeast; Rotating biological contactors; High strength wastewater; Wastewater treatment **prbi**, 447

Biopesticides; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Bioproduction; Alginate; *Azotobacter vinelandii*; Exopolysaccharide; Immobilized cells; Macromolecular weight **prbi**, 895

Bioreactor; *Escherichia coli*; Scale-up; Fermentation; K99 fimbriae; Vaccine **prbi**, 1195

Bioreactor modeling; Differential–algebraic equations; *Penicillium chrysogenum*; DAE numerical solvers; Ceramic membrane; Mathematical model **prbi**, 1297

Bioreactor; Optimal temperature trajectory; Optimal control **prbi**, 379

Biosensor; *Rhodococcus erythropolis*; Respiration; 2,4-dinitrophenol; Ethanol; Cooxidation **prbi**, 683

Biosorbent; Hg(II); Cd(II); Heavy metal; Alginate beads; Entrapment; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Biosorption; Activated sludge; Dilution rate; Heavy metals; Linear isotherm; Nickel **prbi**, 1307

Biosorption; Heavy metals; Downstream processing; Environment; Modelling **prbi**, 115

Biosorption; Hg(II); Cd(II); Heavy metal; Alginate beads; Entrapment; Biosorbent; Uptake; *Phanerochaete chrysosporium* **prbi**, 601

Biosorption; Phthalocyanine dye; Reactive Turquoise Blue; Anaerobic biological treatment; Aerobic biological treatment; Biodegradation **prbi**, 1151

Biosorption; *Polyporous versicolor*; Heavy metals; Nickel; Removal; White-rot fungi **prbi**, 723

Bis(2-ethylhexyl) phthalate; Bacteria; Soil slurry; Sequencing batch reactor; Biodegradation **prbi**, 305

Blackstrap molasses; Citric acid; Effect of Cu^{2+} ions on citric acid fermentation; Fe^{2+} ions reduction in molasses **prbi**, 1085

Bleach; Pulp; Paper; Olive trimming residues; Kraft **prbi**, 1

Boric acid; Lactulose; Isomerization; Sodium hydroxide; Sodium aluminate **prbi**, 629

Boundary layer; Activated sludge biomass; Rate processes; Adsorption rate; Intraparticle diffusion; Activation energy **prbi**, 1129

Bound water; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Nutrient **prbi**, 983

Box–Wilson design; Decolorization; Textile dyestuff **prbi**, 973

***Brevibacterium* sp.**; Medium optimization; Cholesterol oxidase; Response surface methodology; Surfactant; Olive oil **prbi**, 901

Brewing process; Laccase; *Lentinus edodes*; Malt-containing by-product; Manganese peroxidase; Oak wood chips **prbi**, 491

Brewing yeast; Microbeads; Cell growth; Mass transfer limitations; Electrostatic bead generator; Bead size **prbi**, 17

Burkholderia cepacia; Alkaline lipase; Detergent formulation; Oxidizing agents **prbi**, 187

Burkholderia pickettii; Co-metabolism; Quinoline; Glucose; Biodegradation; Kinetics **prbi**, 831

By-products; Enzymic hydrolysis; Fish protein hydrolysate; Salmon frames; Nitrogen recovery; Optimisation; Protamex™ **prbi**, 1263

Ca-alginate gel immobilized *Pseudomonas fluorescens*; Ferrous(II) cyanide complex (ferrocyanide) ions biodegradation; First-order biodegradation kinetics; Effective diffusion coefficient **prbi**, 747

***Candida rugosa* lipase (CRL)**; Enantioselective hydrolysis; (*S*)-Naproxen; (*R*,*S*)-Naproxen methyl ester; Two-step acetone treatment **prbi**, 293

Candida rugosa; Lipase; Enzyme activity; Esterification; Organic solvent; Surfactant **prbi**, 1229

Candida utilis; Yeast dehydration; Cr(VI) sorption; Chromate anions; pH value effects **prbi**, 505

Carbon catabolite repression; *Enterococcus faecalis* RKY1; Lactic acid; Mixed carbon sources; Maltose metabolism; Preferred sugars **prbi**, 235

Carbon monoxide; Acetogen; *Eubacterium limosum*; Synthesis-gas; Mass transfer limitation; Organic acid **prbi**, 411

Carbon/Nitrogen ratio; Biofilm fluidised reactors; Denitrification; Biofilm characteristics; Density; Phosphorus **prbi**, 837

Carboxymethyl cellulose; Ion exchange; Peroxidase; Protein precipitation; Thiophilic chromatography **prbi**, 431

Carrier; Protease; Ligninolytic enzymes; *Phanerochaete chrysosporium*; *Phlebia radiata*; Solid state cultures **prbi**, 1017

Catechol-2,3-oxygenase; Phenanthrene; Biodegradation; *Pseudomonas mendocina*; Kinetic study; Polycyclic aromatic hydrocarbon dioxygenase **prbi**, 1431

Cd(II); Hg(II); Heavy metal; Alginate beads; Entrapment; Biosorbent; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Cell biomass; Fermentation; *Jaggery*; Microbial exopolysaccharide; Pullulan; Viscosity **prbi**, 359

Cell growth; Microbeads; Mass transfer limitations; Electrostatic bead generator; Brewing yeast; Bead size **prbi**, 17

Cell harvesting; *Spirulina platensis*; Photobioreactor; Life support system; Food source; Drying methods **prbi**, 535

Cell immobilization; Thermophilic bacilli; Thermostable exo-inulinase; Inulin; Polymer membrane; High fructose syrups **prbi**, 863

Cell lytic enzyme; *Pseudomonas* sp.; *Xanthomonas campestris*; Xanthan gum; Clarification; Purification; Protease **prbi**, 611

Cellulase; *Clostridium papyrosolvens*; Induction; Anaerobic; Fermentation **prbi**, 241

Cellulase; Lignocellulosics; Wheat straw; Pretreatments; Glucose; Xylose **prbi**, 937

Cellulose microfibrils; Gluconic acid; *Aspergillus niger*; Immobilization **prbi**, 1343

Cellulose support; Dextran; *Rhizopus*; Immobilization; Continuous fermentation; Lignin induction **prbi**, 395

Central composite rotatable design (CCRD); Enzymatic synthesis; Esterification; Isoamyl isobutyrate; Lipozyme IM-20; Response surface methodology (RSM); *Rhizomucor miehei* lipase **prbi**, 9

Cephalosporin C; Fed-batch culture; Antibiotic; Fuzzy logic; Supervisory control; Inverted sucrose feeding **prbi**, 461

Ceramic membrane; Differential–algebraic equations; *Penicillium chrysogenum*; Bioreactor modeling; DAE numerical solvers; Mathematical model **prbi**, 1297

Cereal raw material; Pectinases; *Rhizopus stolonifer*; *Aspergillus awamori*; Submerged culture; Whole wheat flour **prbi**, 497

Cerrena unicolor; Laccase; Wood-rotting fungi; Enzyme immobilization **prbi**, 1387

Charcoal; *Rhizobium leguminosarum*; Pressure oscillation; Solid-state fermenter **prbi**, 165

Chemical; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Chemical oxygen demand reduction; Distillery spentwash; Colour removal; *Pseudomonas putida*; *Aeromonas* strain; *Chlorella vulgaris* **prbi**, 857

Chemical structure; Biomass; Activated sludge; Basic dyes; Adsorption capacity; Film diffusion **prbi**, 595

Chemical treatments; Organic substrate removal; Washing wastewater black olives; Anaerobic digestion **prbi**, 257

Chitin; In situ lactic acid production; Crayfish; Fermentation **prbi**, 229

Chitin; Proteins; Lactic acid fermentation; Silage; *Lactobacillus* spp. **prbi**, 1359

Chitosan; Mungbean residue; Solid state fermentation; Soybean residue **prbi**, 727

Chlorella vulgaris; Distillery spentwash; Chemical oxygen demand reduction; Colour removal; *Pseudomonas putida*; *Aeromonas* strain **prbi**, 857

Chlorine dioxide; Biobleaching; Xylanase; *Thermomyces lanuginosus*; Bagasse pulp **prbi**, 567

4-chlorophenol; Fed-batch operation; Cometabolic degradation; Glucose **prbi**, 1317

4-chlorophenol; *Pseudomonas testosteroni* CPW301; *Pseudomonas solanacearum* TCP114; Phenol; 2,4,6-Trichlorophenol; Biodegradation; Packed bed reactor **prbi**, 1367

Cholesterol oxidase; Medium optimization; *Brevibacterium* sp.; Response surface methodology; Surfactant; Olive oil **prbi**, 901

Choristoneura fumiferana; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity **prbi**, 197

Chromate anions; Candida utilis; Yeast dehydration; Cr(VI) sorption; pH value effects **prbi**, 505

Chromatography; IMAC; IgG; Purification; Human plasma; Affinity **prbi**, 573

Citric acid; Apple pomace; Multiplayer packed bed solid-state bioreactor **prbi**, 909

Citric acid; Blackstrap molasses; Effect of Cu^{2+} ions on citric acid fermentation; Fe^{2+} ions reduction in molasses **prbi**, 1085

Citric acid production; Extractive fermentation; Two phase system. **prbi**, 759

Clarification; Cell lytic enzyme; *Pseudomonas* sp.; *Xanthomonas campestris*; Xanthan gum; Purification; Protease **prbi**, 611

Clostridium papyrosolvens; Induction; Anaerobic; Cellulase; Fermentation **prbi**, 241

C:N ratio; Fed-batch; High cell density; Diatom; *Nitzschia laevis*; Eicosapentaenoic acid **prbi**, 1447

Coke-oven wastewater; Biofilter; Microbial population; Microbial diversity; *Pseudomonas putida*; Quinone profile; Seawater; Treatment performance **prbi**, 943

Cold storage tank; Cold trub; Malt beverage plant; Commercial enzymes; Wort recovery **prbi**, 787

Cold trub; Cold storage tank; Malt beverage plant; Commercial enzymes; Wort recovery **prbi**, 787

Collagen; Pig skin; Fish bone; Extraction; Enzymic hydrolysis **prbi**, 1403

Colour removal; Distillery spentwash; Chemical oxygen demand reduction; *Pseudomonas putida*; *Aeromonas* strain; *Chlorella vulgaris* **prbi**, 857

Cometabolic degradation; Fed-batch operation; 4-chlorophenol; Glucose **prbi**, 1317

Cometabolism; Biodegradation; Phenol derivatives; *Trichosporon cutaneum* **prbi**, 1215

Co-metabolism; Quinoline; Glucose; Biodegradation; Kinetics; *Burkholderia pickettii* **prbi**, 831

Commercial enzymes; Cold trub; Cold storage tank; Malt beverage plant; Wort recovery **prbi**, 787

Compost; Biodegradability; Vinasse; Compost kinetic; Grape marc **prbi**, 1143

Compost kinetic; Biodegradability; Compost; Vinasse; Grape marc **prbi**, 1143

Compost maturity; Composts; Animal manure; Forced-aeration; N loss **prbi**, 869

Composts; Animal manure; Forced-aeration; Compost maturity; N loss **prbi**, 869

Conditioned medium; *Panax notoginseng*; Ginseng polysaccharide; Airlift bioreactor; Plant cell suspension culture **prbi**, 209

Confidence intervals; Inert support; Gibberellins; Parameter estimation; Secondary metabolite; Urea **prbi**, 1033

Continuous fermentation; Dextran; *Rhizopus*; Immobilization; Cellulose support; Lignin induction **prbi**, 395

Contois equation; Anaerobic digestion; Process kinetics; Ice-cream wastewater; Monod equation **prbi**, 965

Cooxidation; Biosensor; *Rhodococcus erythropolis*; Respiration; 2,4-dinitrophenol; Ethanol **prbi**, 683

Copper; Agriculture product; Sorption; Zinc; Lead; Tree fern **prbi**, 1421

Copper; Bioadsorption; Isotherm; Mechanism; Waste biomass; *Saccharomyces cerevisiae* **prbi**, 847

Copper uptake; *Aspergillus niger*; Phosphatase activity **prbi**, 753

Cordyceps militaris; Aeration rate; *exo*-biopolymers; Morphology; Submerged culture **prbi**, 1257

Corncobs; Acetyl groups; Autohydrolysis; *Eucalyptus globulus*; Hemicelluloses; Severity factor; Xylan **prbi**, 1067

Corn Fibre; Xylanase; Xylan; *Fusarium proliferatum*; Xylobiose; Xylooligosaccharide **prbi**, 1279

Corynebacterium glutamicum; pH-auxostat; Metabolic flux; ATP; Reducing equivalents; Amino acid resolution **prbi**, 1455

Crayfish; Chitin; In situ lactic acid production; Fermentation **prbi**, 229

Crude oil; Mixed culture; Bacteria; Water-in-oil emulsions; De-emulsification; Surfactant **prbi**, 1135

Cr(VI) sorption; Candida utilis; Yeast dehydration; Chromate anions; pH value effects **prbi**, 505

***Cryptococcus* spp.**; Lipase; Methanolysis; Vegetable oils; Aqueous medium; Rice bran oil **prbi**, 405

CT; Granulation; Granule; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; Treatment; UASB **prbi**, 1091

Culture age; Astaxanthin; *Haematococcus pluvialis*; Salinity stress **prbi**, 623

Cumic acid; Bioconversion; α-Pinene; β-Pinene; Perillic acid; Monoterpenes; Resting cells **prbi**, 739

Cybernetic modelling; Recombinant yeast; Starch bioconversion; Bifunctional fusion protein; Substitutable substrates **prbi**, 1439

DAE numerical solvers; Differential–algebraic equations; *Penicillium chrysogenum*; Bioreactor modeling; Ceramic membrane; Mathematical model **prbi**, 1297

Daidzein; Isoflavones; Genistein; Glycitein; Soybeans; Okara; Whey; Value-added products **prbi**, 1117

Decolorization; Box–Wilson design; Textile dyestuff **prbi**, 973

Decolorization; Disazo dyes; Laccase; Synthesis; Textile **prbi**, 581

Decomposition; Microbial activities; Yard trimmings; Enzyme activities; Windrow composting **prbi**, 1057

De-emulsification; Mixed culture; Bacteria; Crude oil; Water-in-oil emulsions; Surfactant **prbi**, 1135

DegP; *Escherichia coli*; Inclusion body; Localization; Penicillin acylase; Protease **prbi**, 23

Degradation; Anoxic; Denitrifier; Nitrate; Nitrogeneous heterocyclic compounds; Molecular connectivity index **prbi**, 81

Degradation; *Aspergillus terreus*; Elimination rate; Kinetics; Olive-mill waste **prbi**, 1169

Degradation; Desulphurization; Benzothiophene; Flavin–oxidoreductase; Nocardioform; Recombinant bacteria **prbi**, 31

Denitrification; Biofilm fluidised reactors; Biofilm characteristics; Density; Carbon/Nitrogen ratio; Phosphorus **prbi**, 837

Denitrification; Membrane bioreactor; Microfiltration; Ground water **prbi**, 57

Denitrification; Rotating biological contactor; Disks submergence; Biofilm activity; Biofilm composition **prbi**, 345

Denitrifier; Anoxic; Degradation; Nitrate; Nitrogeneous heterocyclic compounds; Molecular connectivity index **prbi**, 81

Density; Biofilm fluidised reactors; Denitrification; Biofilm characteristics; Carbon/Nitrogen ratio; Phosphorus **prbi**, 837

Deodorization; Food poisoning bacteria; Kitchen waste; Lactic acid; Lactic acid bacteria; Preservation **prbi**, 351

Deodorization; Toluene; Styrene; Biofiltration; *Acinetobacter sp*; *Rhodococcus rhodochrous* **prbi**, 423

De-repression; Alkaline protease; *Bacillus mojavensis*; Regulation; Fed-batch **prbi**, 1103

Desulphurization; Degradation; Benzothiophene; Flavin–oxidoreductase; Nocardioform; Recombinant bacteria **prbi**, 31

Detergent formulation; Alkaline lipase; *Burkholderia cepacia*; Oxidizing agents **prbi**, 187

Dextran; *Rhizopus*; Immobilization; Cellulose support; Continuous fermentation; Lignin induction **prbi**, 395

Dextransucrase; Alginate fibre; Immobilization; Isomaltooligosaccharides **prbi**, 1111

Diaion HP 20; Adsorption; Alkaline protease; Hydrophobic chromatography; Polychaeta; Purification **prbi**, 299

Diatom; Fed-batch; High cell density; *Nitzschia laevis*; Eicosapentaenoic acid; C:N ratio **prbi**, 1447

Diesohol; Biodiesel; Palm oil; Methyl ester; Extractant; Transesterification **prbi**, 65

Differential–algebraic equations; *Penicillium chrysogenum*; Bioreactor modeling; DAE numerical solvers; Ceramic membrane; Mathematical model **prbi**, 1297

Diffusion coefficient; *Kluyveromyces marxianus*; Immobilized cells; Barium alginate; Inulinase; Thiele module **prbi**, 513

Dilution rate; Activated sludge; Biosorption; Heavy metals; Linear isotherm; Nickel **prbi**, 1307

2,4-dinitrophenol; Biosensor; *Rhodococcus erythropolis*; Respiration; Ethanol; Cooxidation **prbi**, 683

Disazo dyes; Decolorization; Laccase; Synthesis; Textile **prbi**, 581

Disks submergence; Denitrification; Rotating biological contactor; Biofilm activity; Biofilm composition **prbi**, 345

Distillery spentwash; Chemical oxygen demand reduction; Colour removal; *Pseudomonas putida*; *Aeromonas* strain; *Chlorella vulgaris* **prbi**, 857

DMC control; Response surface analysis; Factorial design; Optimization; Ethanol **prbi**, 125

Downstream processing; Biosorption; Heavy metals; Environment; Modelling **prbi**, 115

Drying methods; *Spirulina platensis*; Photobioreactor; Life support system; Food source; Cell harvesting **prbi**, 535

Dye binding; Protein purification; Large proteins; Membrane cartridge **prbi**, 247

Dye; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

***Eco*RI**; Enzyme immobilization; Polyclonal antibodies; Enzyme stabilization **prbi**, 275

Effective diffusion coefficient; Ferrous(II) cyanide complex (ferrocyanide) ions biodegradation; Ca-alginate gel immobilized *Pseudomonas fluorescens*; First-order biodegradation kinetics **prbi**, 747

Effect of Cu^{2+} ions on citric acid fermentation; Citric acid; Blackstrap molasses; Fe^{2+} ions reduction in molasses **prbi**, 1085

Effect of pollutants; Predator bacteria; Viability **prbi**, 1177

Eicosapentaenoic acid; Fed-batch; High cell density; Diatom; *Nitzschia laevis*; C:N ratio **prbi**, 1447

Electrostatic bead generator; Microbeads; Cell growth; Mass transfer limitations; Brewing yeast; Bead size **prbi**, 17

Elemental sulphur; Biodegradation; Biofiltration; Hydrogen sulphide; Packing material; Biofilter **prbi**, 813

Elicitors; Fava bean (*Vicia faba*); Pentose phosphate pathway; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Elicitors; Fava bean (*Vicia faba*); Pentose phosphate pathway; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Elimination rate; *Aspergillus terreus*; Degradation; Kinetics; Olive-mill waste **prbi**, 1169

Enantioselective hydrolysis; *Candida rugosa* lipase (CRL); (*S*)-Naproxen; (*R*,*S*)-Naproxen methyl ester; Two-step acetone treatment **prbi**, 293

Endoinulinase; Inulooligosaccharides; Enzyme purification; *Xanthomonas oryzae* **prbi**, 1325

***Enterococcus faecalis* RKY1**; Lactic acid; Mixed carbon sources; Maltose metabolism; Preferred sugars; Carbon catabolite repression **prbi**, 235

Entomotoxicity; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; *Choristoneura fumiferana* **prbi**, 197

Entrapment; Hg(II); Cd(II); Heavy metal; Alginate beads; Biosorbent; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Environment; Biosorption; Heavy metals; Downstream processing; Modelling **prbi**, 115

Enzymatic inhibition; Milk; Galactose **prbi**, 267

Enzymatic synthesis; Central composite rotatable design (CCRD); Esterification; Isoamyl isobutyrate; Lipozyme IM-20; Response surface methodology (RSM); *Rhizomucor miehei* lipase **prbi**, 9

Enzyme activities; Microbial activities; Yard trimmings; Decomposition; Windrow composting **prbi**, 1057

Enzyme activity; *Candida rugosa*; Lipase; Esterification; Organic solvent; Surfactant **prbi**, 1229

Enzyme immobilization; Laccase; Wood-rotting fungi; *Cerrena unicolor* **prbi**, 1387

Enzyme immobilization; Polyclonal antibodies; *Eco*RI; Enzyme stabilization **prbi**, 275

Enzyme purification; Inulooligosaccharides; Endoinulinase; *Xanthomonas oryzae* **prbi**, 1325

Enzymes; Sorghum; Mashing; Wort; Extract; Fermentation **prbi**, 851

Enzyme stabilization; Enzyme immobilization; Polyclonal antibodies; *Eco*RI **prbi**, 275

Enzymic hydrolysis; Collagen; Pig skin; Fish bone; Extraction **prbi**, 1403

Enzymic hydrolysis; Fish protein hydrolysate; Salmon frames; By-products; Nitrogen recovery; Optimisation; Protamex™ **prbi**, 1263

Enzymic reaction; Aspartame; Thermolysin; Eutectic mixture **prbi**, 279

Epicatechin; Antioxidant enzymes; Glutathione; *Tert*-butylhydroperoxide **prbi**, 659

Escherichia coli; DegP; Inclusion body; Localization; Penicillin acylase; Protease **prbi**, 23

Escherichia coli; Scale-up; Fermentation; K99 fimbriae; Vaccine; Bioreactor **prbi**, 1195

Escherichia coli; *Taq* I; Methyltransferase; Secretion; MBP; Fusion protein **prbi**, 527

Esterification; *Candida rugosa*; Lipase; Enzyme activity; Organic solvent; Surfactant **prbi**, 1229

Esterification; Central composite rotatable design (CCRD); Enzymatic synthesis; Isoamyl isobutyrate; Lipozyme IM-20; Response surface methodology (RSM); *Rhizomucor miehei* lipase **prbi**, 9

Ethanol; Biosensor; *Rhodococcus erythropolis*; Respiration; 2,4-dinitrophenol; Cooxidation **prbi**, 683

Ethanol; Organosolv; Pulp; Paper; Wheat straw **prbi**, 665

Ethanol; Recombinant yeast; Starch bioconversion; Fermentation; Amylolytic enzymes; Fed-batch **prbi**, 1157

Ethanol; Response surface analysis; Factorial design; Optimization; DMC control **prbi**, 125

Ethyl alcohol; Acrylamide/maleic acid; Hydrogel; Radiation; Immobilization; *Saccharomyces cerevisiae* **prbi**, 1351

Ethyl alcohol; 2-Hydroxyethyl methacrylate/acrylamide; Hydrogel; Radiation; Immobilization; *Saccharomyces cerevisiae* **prbi**, 651

Eubacterium limosum; Acetogen; Carbon monoxide; Synthesis-gas; Mass transfer limitation; Organic acid **prbi**, 411

Eucalyptus globulus; Acetyl groups; Autohydrolysis; Corncobs; Hemicelluloses; Severity factor; Xylan **prbi**, 1067

Eutectic mixture; Aspartame; Enzymic reaction; Thermolysin **prbi**, 279

EVOP; Modified solid-state fermentation; Optimization; Factorial; Filamentous fungi; Tannase **prbi**, 1395

***exo*-biopolymers**; Aeration rate; *Cordyceps militaris*; Morphology; Submerged culture **prbi**, 1257

Exopolysaccharide; Alginate; *Azotobacter vinelandii*; Bioproduction; Immobilized cells; Macromolecular weight **prbi**, 895

Expanded granular sludge bed; Anaerobic filter; Oleic acid; Long chain fatty acid **prbi**, 1025

Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Extractant; Biodiesel; Diesohol; Palm oil; Methyl ester; Transesterification **prbi**, 65

Extraction; Amino acids; Liquid membrane; Response surface methodology **prbi**, 169

Extraction; Collagen; Pig skin; Fish bone; Enzymic hydrolysis **prbi**, 1403

Extractive fermentation; Citric acid production; Two phase system. **prbi**, 759

Extract; Sorghum; Enzymes; Mashing; Wort; Fermentation **prbi**, 851

Factorial design; Response surface analysis; Optimization; DMC control; Ethanol **prbi**, 125

Factorial; Modified solid-state fermentation; Optimization; EVOP; Filamentous fungi; Tannase **prbi**, 1395

Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Fed-batch; Alkaline protease; *Bacillus mojavensis*; Regulation; De-repression **prbi**, 1103

Fed-batch culture; Antibiotic; Cephalosporin C; Fuzzy logic; Supervisory control; Inverted sucrose feeding **prbi**, 461

Fed-batch; High cell density; Diatom; *Nitzschia laevis*; Eicosapentaenoic acid; C:N ratio **prbi**, 1447

Fed-batch operation; 4-chlorophenol; Cometabolic degradation; Glucose **prbi**, 1317

Fed-batch; Recombinant yeast; Starch bioconversion; Ethanol; Fermentation; Amylolytic enzymes **prbi**, 1157

Fe^{2+} ions reduction in molasses; Citric acid; Blackstrap molasses; Effect of Cu^{2+} ions on citric acid fermentation **prbi**, 1085

Fermentation; Chitin; In situ lactic acid production; Crayfish **prbi**, 229

Fermentation; *Clostridium papyrosolvens*; Induction; Anaerobic; Cellulase **prbi**, 241

Fermentation; *Escherichia coli*; Scale-up; K99 fimbriae; Vaccine; Bioreactor **prbi**, 1195

Fermentation; Fourier transform mid infrared spectroscopy; Near infrared spectroscopy; Fourier transform Raman spectroscopy; Lactic acid; *Lactobacillus casei* **prbi**, 371

Fermentation; High gravity; Opaque beer **prbi**, 365

Fermentation; *Jaggery*; Microbial exopolysaccharide; Pullulan; Cell biomass; Viscosity **prbi**, 359

Fermentation kinetics; Xanthan; Agitation; Pyruvate; Molecular weight **prbi**, 73

Fermentation; pH-auxostat; Flux partitioning; Amino acids **prbi**, 775

Fermentation; Recombinant yeast; Starch bioconversion; Ethanol; Amylolytic enzymes; Fed-batch **prbi**, 1157

Fermentation; Sorghum; Enzymes; Mashing; Wort; Extract **prbi**, 851

Fermentation technology; *Ganoderma lucidum*; Ganoderic acid; Higher fungi; Polysaccharide; Inoculation density **prbi**, 1375

Ferrous(II) cyanide complex (ferrocyanide) ions biodegradation; Ca-alginate gel immobilized *Pseudomonas fluorescens*; First-order biodegradation kinetics; Effective diffusion coefficient **prbi**, 747

Filamentous bacteria; Extracellular polymeric substances (EPS); Floc; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Filamentous fungi; Modified solid-state fermentation; Optimization; Factorial; EVOP; Tannase **prbi**, 1395

Film diffusion; Biomass; Activated sludge; Basic dyes; Adsorption capacity; Chemical structure **prbi**, 595

First-order biodegradation kinetics; Ferrous(II) cyanide complex (ferrocyanide) ions biodegradation; Ca-alginate gel immobilized *Pseudomonas fluorescens*; Effective diffusion coefficient **prbi**, 747

Fish bone; Collagen; Pig skin; Extraction; Enzymic hydrolysis **prbi**, 1403

Fish protein hydrolysate; Enzymic hydrolysis; Salmon frames; By-products; Nitrogen recovery; Optimisation; Protamex™ **prbi**, 1263

Fish protein hydrolysates; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Fish protein hydrolysates; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Fixed-bed reactor; Wastewater treatment; Anaerobic process; Sulphate reduction; Polyurethane foam **prbi**, 927

Flavin–oxidoreductase; Desulphurization; Degradation; Benzothiophene; Nocardioform; Recombinant bacteria **prbi**, 31

Floc; Extracellular polymeric substances (EPS); Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Fluorescence criteria; Groove binders; Mode of binding; Sequence specificity **prbi**, 521

Flux; Activated sludge; Aeration; Fouling; Membrane bioreactor; Sparging **prbi**, 915

Flux partitioning; pH-auxostat; Amino acids; Fermentation **prbi**, 775

Food poisoning bacteria; Deodorization; Kitchen waste; Lactic acid; Lactic acid bacteria; Preservation **prbi**, 351

Food source; *Spirulina platensis*; Photobioreactor; Life support system; Cell harvesting; Drying methods **prbi**, 535

Forced-aeration; Composts; Animal manure; Compost maturity; N loss **prbi**, 869

Fouling; Activated sludge; Aeration; Flux; Membrane bioreactor; Sparging **prbi**, 915

Fourier transform mid infrared spectroscopy; Near infrared spectroscopy; Fourier transform Raman spectroscopy; Fermentation; Lactic acid; *Lactobacillus casei* **prbi**, 371

Fourier transform Raman spectroscopy; Fourier transform mid infrared spectroscopy; Near infrared spectroscopy; Fermentation; Lactic acid; *Lactobacillus casei* **prbi**, 371

Freeze dried; Immobilization; Wine making; Gluten pellets; Low-temperature **prbi**, 707

β-Fructofuranosidase; Invertase; Sucrase; Solid-state fermentation; Media optimization; *Aspergillus niger* **prbi**, 331

Fructo-oligosaccharide; *Bacillus macerans* EG-6; Transfructosylating enzyme; Purification **prbi**, 471

Fungal biosorbent; Three-metal biosorption; *Rhizopus arrhizus*; Multicomponent freundlich model; Multicomponent langmuir model **prbi**, 35

Fungal elicitor; *Taxus chinensis* cell; Salicylic acid; Taxol; Membrane-lipid peroxidation; Peroxidase (POD); Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

Fungal morphology; Proteases; Glucoamylase; *Aspergillus niger*; Inoculum **prbi**, 1271

Fusarium proliferatum; Xylanase; Xylan; Corn Fibre; Xylobiose; Xylooligosaccharide **prbi**, 1279

Fusion protein; *Escherichia coli*; *Taq* I; Methyltransferase; Secretion; MBP **prbi**, 527

Fuzzy logic; Fed-batch culture; Antibiotic; Cephalosporin C; Supervisory control; Inverted sucrose feeding **prbi**, 461

Galactose; Milk; Enzymatic inhibition **prbi**, 267

Ganoderic acid; Ganoderma lucidum; Higher fungi; Initial pH; Polysaccharide; Submerged fermentation **prbi**, 769

Ganoderic acid; *Ganoderma lucidum*; Higher fungi; Polysaccharide; Inoculation density; Fermentation technology **prbi**, 1375

Ganoderma lucidum; Ganoderic acid; Higher fungi; Initial pH; Polysaccharide; Submerged fermentation **prbi**, 769

Ganoderma lucidum; Ganoderic acid; Higher fungi; Polysaccharide; Inoculation density; Fermentation technology **prbi**, 1375

Genistein; Isoflavones; Daidzein; Glycitein; Soybeans; Okara; Whey; Value-added products **prbi**, 1117

Gibberellins; Confidence intervals; Inert support; Parameter estimation; Secondary metabolite; Urea **prbi**, 1033

Ginseng polysaccharide; *Panax notoginseng*; Conditioned medium; Airlift bioreactor; Plant cell suspension culture **prbi**, 209

Ginsenoside-α-arabinofuranase; Purification; 20(S)-Ginsenoside Rc; 20(S)-Ginsenoside Rd; *Panax ginseng* **prbi**, 793

GL-7-ACA acylase; Immobilization; Modification of glutaraldehyde; Optimization; Analysis of variance; Response surface methodology **prbi**, 153

Glucoamylase; *Aspergillus oryzae*; Amyloglucosidase; Solid-state fermentation; Starch-gel digestion **prbi**, 453

Glucoamylase; Proteases; *Aspergillus niger*; Fungal morphology; Inoculum **prbi**, 1271

Gluconic acid; *Aspergillus niger*; Cellulose microfibrils; Immobilization **prbi**, 1343

Glucose; Co-metabolism; Quinoline; Biodegradation; Kinetics; *Burkholderia pickettii* **prbi**, 831

Glucose; Fed-batch operation; 4-chlorophenol; Cometabolic degradation **prbi**, 1317

Glucose; Lignocellulosics; Wheat straw; Pretreatments; Cellulase; Xylose **prbi**, 937

Glucose-6-phosphate dehydrogenase; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Glucose-6-phosphate dehydrogenase; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Glucose-6-phosphate dehydrogenase; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Total phenolics; L-DOPA; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Glucose-6-phosphate dehydrogenase (G6PDH); *Taxus chinensis* cell; Salicylic acid; Taxol; Membrane-lipid peroxidation; Fungal elicitor; Peroxidase (POD) **prbi**, 477

Glutathione; Epicatechin; Antioxidant enzymes; *Tert*-butylhydroperoxide **prbi**, 659

Gluten pellets; Freeze dried; Immobilization; Wine making; Low-temperature **prbi**, 707

Glycitein; Isoflavones; Daidzein; Genistein; Soybeans; Okara; Whey; Value-added products **prbi**, 1117

Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; Treatment; UASB **prbi**, 1091

Granule; Granulation; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; Treatment; UASB **prbi**, 1091

Grape marc; Biodegradability; Compost; Vinasse; Compost kinetic **prbi**, 1143

Groove binders; Fluorescence criteria; Mode of binding; Sequence specificity **prbi**, 521

Ground water; Membrane bioreactor; Denitrification; Microfiltration **prbi**, 57

Guaiacol peroxidase; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Guaiacol peroxidase; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Guaiacol peroxidase; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Proline; Antioxidant activity **prbi**, 1285

Haematococcus pluvialis; Astaxanthin; Culture age; Salinity stress **prbi**, 623

Halobacterium salinarium; Phosphate; Polyphosphate; Accumulation; Reserve **prbi**, 643

Heavy metal; Hg(II); Cd(II); Alginate beads; Entrapment; Biosorbent; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Heavy metals; Activated sludge; Biosorption; Dilution rate; Linear isotherm; Nickel **prbi**, 1307

Heavy metals; Biosorption; Downstream processing; Environment; Modelling **prbi**, 115

Heavy metals; Biosorption; *Polyporous versicolor*; Nickel; Removal; White-rot fungi **prbi**, 723

Hemicellulases; Xylanase; *Thermomyces lanuginosus*; Aeration **prbi**, 1221

Hemicelluloses; Acetyl groups; Autohydrolysis; Corncobs; *Eucalyptus globulus*; Severity factor; Xylan **prbi**, 1067

Heterofermentative; Lactic acid bacteria; *Lactobacillus*; *Leuconostoc*; Mannitol; Productivity **prbi**, 1207

Hg(II); Cd(II); Heavy metal; Alginate beads; Entrapment; Biosorbent; Uptake; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

High cell density; Fed-batch; Diatom; *Nitzschia laevis*; Eicosapentaenoic acid; C:N ratio **prbi**, 1447

Higher fungi; Ganoderma lucidum; Ganoderic acid; Initial pH; Polysaccharide; Submerged fermentation **prbi**, 769

Higher fungi; *Ganoderma lucidum*; Ganoderic acid; Polysaccharide; Inoculation density; Fermentation technology **prbi**, 1375

High fructose syrups; Cell immobilization; Thermophilic bacilli; Thermostable exo-inulinase; Inulin; Polymer membrane **prbi**, 863

High gravity; Opaque beer; Fermentation **prbi**, 365

High strength wastewater; Biopack; Bakers yeast; Rotating biological contactors; Wastewater treatment **prbi**, 447

H_2S oxidation; *Thiobacillus thiooxidans*; *Thiobacillus ferrooxidans* **prbi**, 111

Human plasma; IMAC; IgG; Purification; Chromatography; Affinity **prbi**, 573

Hydrogel; Acrylamide/maleic acid; Radiation; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 1351

Hydrogel; 2-Hydroxyethyl methacrylate/acrylamide; Radiation; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 651

Hydrogen sulphide; Biodegradation; Biofiltration; Packing material; Elemental sulphur; Biofilter **prbi**, 813

Hydroperoxide lyase; *Agaricus bisporus*; Lipoxygenase; Biogeneration; 1-octen-3-ol **prbi**, 177

Hydrophobic chromatography; Adsorption; Alkaline protease; Diaion HP 20; Polychaeta; Purification **prbi**, 299

Hydrophobicity; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Surface charge; Bound water; Nutrient **prbi**, 983

2-Hydroxyethyl methacrylate/acrylamide; Hydrogel; Radiation; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 651

Ice-cream wastewater; Anaerobic digestion; Process kinetics; Monod equation; Contois equation **prbi**, 965

IgG; IMAC; Purification; Human plasma; Chromatography; Affinity **prbi**, 573

IMAC; IgG; Purification; Human plasma; Chromatography; Affinity **prbi**, 573

IMAC; Purification; Aprotinin; Negative chromatography; Affinity **prbi**, 1413

Immobilization; Acrylamide/maleic acid; Hydrogel; Radiation; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 1351

Immobilization; Alginate fibre; Dextransucrase; Isomalto-oligosaccharides **prbi**, 1111

Immobilization; Dextran; *Rhizopus*; Cellulose support; Continuous fermentation; Lignin induction **prbi**, 395

Immobilization; Freeze dried; Wine making; Gluten pellets; Low-temperature **prbi**, 707

Immobilization; GL-7-ACA acylase; Modification of glutaraldehyde; Optimization; Analysis of variance; Response surface methodology **prbi**, 153

Immobilization; Gluconic acid; *Aspergillus niger*; Cellulose microfibrils **prbi**, 1343

Immobilization; 2-Hydroxyethyl methacrylate/acrylamide; Hydrogel; Radiation; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 651

Immobilization; Levan; Levansucrase; Titanium-activated magnetite; *Zymomonas mobilis* **prbi**, 339

Immobilized cells; Alginate; *Azotobacter vinelandii*; Bioproduction; Exopolysaccharide; Macromolecular weight **prbi**, 895

Immobilized cells; *Kluyveromyces marxianus*; Barium alginate; Inulinase; Diffusion coefficient; Thiele module **prbi**, 513

Inclusion body; DegP; *Escherichia coli*; Localization; Penicillin acylase; Protease **prbi**, 23

Induction; *Clostridium papyrosolvens*; Anaerobic; Cellulase; Fermentation **prbi**, 241

Inert support; Confidence intervals; Gibberellins; Parameter estimation; Secondary metabolite; Urea **prbi**, 1033

Inflow noise; Streptokinase fermentation; Neural filtering; Neural control **prbi**, 145

Initial pH; Ganoderma lucidum; Ganoderic acid; Higher fungi; Polysaccharide; Submerged fermentation **prbi**, 769

Inoculation density; *Ganoderma lucidum*; Ganoderic acid; Higher fungi; Polysaccharide; Fermentation technology **prbi**, 1375

Inoculum; Proteases; Glucoamylase; *Aspergillus niger*; Fungal morphology **prbi**, 1271

In situ lactic acid production; Chitin; Crayfish; Fermentation **prbi**, 229

Intraparticle diffusion; Activated sludge biomass; Rate processes; Adsorption rate; Boundary layer; Activation energy **prbi**, 1129

Inulinase; *Kluyveromyces marxianus*; Immobilized cells; Barium alginate; Diffusion coefficient; Thiele module **prbi**, 513

Inulin; Cell immobilization; Thermophilic bacilli; Thermostable exo-inulinase; Polymer membrane; High fructose syrups **prbi**, 863

Inulooligosaccharides; Endoinulinase; Enzyme purification; *Xanthomonas oryzae* **prbi**, 1325

Invertase; β-Fructofuranosidase; Sucrase; Solid-state fermentation; Media optimization; *Aspergillus niger* **prbi**, 331

Inverted sucrose feeding; Fed-batch culture; Antibiotic; Cephalosporin C; Fuzzy logic; Supervisory control **prbi**, 461

Ion exchange; Carboxymethyl cellulose; Peroxidase; Protein precipitation; Thiophilic chromatography **prbi**, 431

Isoamyl isobutyrate; Central composite rotatable design (CCRD); Enzymatic synthesis; Esterification; Lipozyme IM-20; Response surface methodology (RSM); *Rhizomucor miehei* lipase **prbi**, 9

Isoflavones; Daidzein; Genistein; Glycitein; Soybeans; Okara; Whey; Value-added products **prbi**, 1117

Isomalto-oligosaccharides; Alginate fibre; Dextransucrase; Immobilization **prbi**, 1111

Isomerization; Lactulose; Sodium hydroxide; Boric acid; Sodium aluminate **prbi**, 629

Isotherm; Bioadsorption; Mechanism; Waste biomass; Copper; *Saccharomyces cerevisiae* **prbi**, 847

Jaggery; Fermentation; Microbial exopolysaccharide; Pullulan; Cell biomass; Viscosity **prbi**, 359

Jet-loop reactor; Winery wastewater; Aerobic treatment; Activated sludge **prbi**, 821

Keratinolytic protease; *Bacillus subtilis*; *Bacillus pumilis*; *Bacillus cereus* **prbi**, 287

K99 fimbriae; *Escherichia coli*; Scale-up; Fermentation; Vaccine; Bioreactor **prbi**, 1195

Kinetics; *Aspergillus terreus*; Degradation; Elimination rate; Olive-mill waste **prbi**, 1169

Kinetics; Co-metabolism; Quinoline; Glucose; Biodegradation; *Burkholderia pickettii* **prbi**, 831

Kinetic study; Phenanthrene; Biodegradation; *Pseudomonas mendocina*; Polycyclic aromatic hydrocarbon dioxygenase; Catechol-2,3-oxygenase **prbi**, 1431

Kinetics; Wastewater; Vinasse; Anaerobic digestion; Ozone; UV **prbi**, 699

Kitchen waste; Deodorization; Food poisoning bacteria; Lactic acid; Lactic acid bacteria; Preservation **prbi**, 351

Kluyveromyces marxianus; Immobilized cells; Barium alginate; Inulinase; Diffusion coefficient; Thiele module **prbi**, 513

Kraft; Pulp; Paper; Bleach; Olive trimming residues **prbi**, 1

Laccase; Brewing process; *Lentinus edodes*; Malt-containing by-product; Manganese peroxidase; Oak wood chips **prbi**, 491

Laccase; Decolorization; Disazo dyes; Synthesis; Textile **prbi**, 581

Laccase; Wood-rotting fungi; *Cerrena unicolor*; Enzyme immobilization **prbi**, 1387

Lactic acid bacteria; Deodorization; Food poisoning bacteria; Kitchen waste; Lactic acid; Preservation **prbi**, 351

Lactic acid bacteria; Heterofermentative; *Lactobacillus*; *Leuconostoc*; Mannitol; Productivity **prbi**, 1207

Lactic acid bacteria; Nisin; Pediocin; Primary metabolite; Stability; Antibacterial activity **prbi**, 1005

Lactic acid; Deodorization; Food poisoning bacteria; Kitchen waste; Lactic acid bacteria; Preservation **prbi**, 351

Lactic acid; *Enterococcus faecalis* RKY1; Mixed carbon sources; Maltose metabolism; Preferred sugars; Carbon catabolite repression **prbi**, 235

Lactic acid fermentation; Chitin; Proteins; Silage; *Lactobacillus* spp. **prbi**, 1359

Lactic acid fermentation; Whey protein hydrolysate; Whey permeate **prbi**, 183

Lactic acid; Fourier transform mid infrared spectroscopy; Near infrared spectroscopy; Fourier transform Raman spectroscopy; Fermentation; *Lactobacillus casei* **prbi**, 371

Lactobacillus casei; Fourier transform mid infrared spectroscopy; Near infrared spectroscopy; Fourier transform Raman spectroscopy; Fermentation; Lactic acid **prbi**, 371

Lactobacillus; Lactic acid bacteria; Heterofermentative; *Leuconostoc*; Mannitol; Productivity **prbi**, 1207

***Lactobacillus* spp.**; Chitin; Proteins; Lactic acid fermentation; Silage **prbi**, 1359

Lactoferrin; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Lactoferrin; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Lactulose; Isomerization; Sodium hydroxide; Boric acid; Sodium aluminate **prbi**, 629

Large proteins; Protein purification; Dye binding; Membrane cartridge **prbi**, 247

L-DOPA; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Lead; Agriculture product; Sorption; Copper; Zinc; Tree fern **prbi**, 1421

Leather; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Lentinus edodes; Brewing process; Laccase; Malt-containing by-product; Manganese peroxidase; Oak wood chips **prbi**, 491

Leuconostoc; Lactic acid bacteria; Heterofermentative; *Lactobacillus*; Mannitol; Productivity **prbi**, 1207

Levan; Immobilization; Levansucrase; Titanium-activated magnetite; *Zymomonas mobilis* **prbi**, 339

Levansucrase; Immobilization; Levan; Titanium-activated magnetite; *Zymomonas mobilis* **prbi**, 339

Levo dihydroxy phenylalanine; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity **prbi**, 1247

Levo dihydroxy phenylalanine; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity **prbi**, 1247

Life support system; *Spirulina platensis*; Photobioreactor; Food source; Cell harvesting; Drying methods **prbi**, 535

Lignin induction; Dextran; *Rhizopus*; Immobilization; Cellulose support; Continuous fermentation **prbi**, 395

Ligninolytic enzymes; Aeration rate; Nylon sponge; *Phanerochaete chrysosporium*; Rotating drum bioreactor; Solid-state fermentation **prbi**, 549

Ligninolytic enzymes; Protease; *Phanerochaete chrysosporium*; *Phlebia radiata*; Solid state cultures; Carrier **prbi**, 1017

Lignocellulosics; Wheat straw; Pretreatments; Cellulase; Glucose; Xylose **prbi**, 937

Limestone dissolution; Alkalinity; Autotrophic denitrification; Nitrate removal; pH control; Sulphur/limestone reactor **prbi**, 885

Linear isotherm; Activated sludge; Biosorption; Dilution rate; Heavy metals; Nickel **prbi**, 1307

Lipase; Alkaline; Thermophilic; *Bacillus* sp; Purification; Thermostable **prbi**, 1075

Lipase; *Candida rugosa*; Enzyme activity; Esterification; Organic solvent; Surfactant **prbi**, 1229

Lipase; Methanolysis; Vegetable oils; Aqueous medium; *Cryptococcus* spp.; Rice bran oil **prbi**, 405

Lipases; *Rhizopus*; Meals; Oils; Sugarcane; *Baggase* **prbi**, 637

Lipoxygenase; *Agaricus bisporus*; Hydroperoxide lyase; Biogeneration; 1-octen-3-ol **prbi**, 177

Lipozyme IM-20; Central composite rotatable design (CCRD); Enzymatic synthesis; Esterification; Isoamyl isobutyrate; Response surface methodology (RSM); *Rhizomucor miehei* lipase **prbi**, 9

Liquid membrane; Amino acids; Extraction; Response surface methodology **prbi**, 169

Localization; DegP; *Escherichia coli*; Inclusion body; Penicillin acylase; Protease **prbi**, 23

Long chain fatty acid; Anaerobic filter; Expanded granular sludge bed; Oleic acid **prbi**, 1025

Long-chain fatty acids; Anaerobic filters; Methanogenic activity; Oleic acid toxicity; Shocks **prbi**, 387

Low-temperature; Freeze dried; Immobilization; Wine making; Gluten pellets **prbi**, 707

Macromolecular weight; Alginate; *Azotobacter vinelandii*; Bioproduction; Exopolysaccharide; Immobilized cells **prbi**, 895

Malt beverage plant; Cold trub; Cold storage tank; Commercial enzymes; Wort recovery **prbi**, 787

Malt-containing by-product; Brewing process; Laccase; *Lentinus edodes*; Manganese peroxidase; Oak wood chips **prbi**, 491

Maltose metabolism; *Enterococcus faecalis* RKY1; Lactic acid; Mixed carbon sources; Preferred sugars; Carbon catabolite repression **prbi**, 235

Manganese peroxidase; Brewing process; Laccase; *Lentinus edodes*; Malt-containing by-product; Oak wood chips **prbi**, 491

Mannitol; Lactic acid bacteria; Heterofermentative; *Lactobacillus*; *Leuconostoc*; Productivity **prbi**, 1207

Mashing; Sorghum; Enzymes; Wort; Extract; Fermentation **prbi**, 851

Mass transfer limitation; Acetogen; *Eubacterium limosum*; Carbon monoxide; Synthesis-gas; Organic acid **prbi**, 411

Mass transfer limitations; Microbeads; Cell growth; Electrostatic bead generator; Brewing yeast; Bead size **prbi**, 17

Mathematical model; Differential–algebraic equations; *Penicillium chrysogenum*; Bioreactor modeling; DAE numerical solvers; Ceramic membrane **prbi**, 1297

Mathematical modelling; Wheat starch hydrolysis; α-Amylase enzyme inactivation; Process variables; Stirred batch bioreactor **prbi**, 87

MBP; *Escherichia coli*; *Taq* I; Methyltransferase; Secretion; Fusion protein **prbi**, 527

Meals; Lipases; *Rhizopus*; Oils; Sugarcane; *Baggase* **prbi**, 637

Mechanism; Bioadsorption; Isotherm; Waste biomass; Copper; *Saccharomyces cerevisiae* **prbi**, 847

Media component; Phytase; *Pichia anomala*; Response surface methodology **prbi**, 999

Media optimisation; Somatic embryogenesis; Statistical design; *Santalum album* **prbi**, 51

Media optimization; β-Fructofuranosidase; Invertase; Sucrase; Solid-state fermentation; *Aspergillus niger* **prbi**, 331

Medium optimization; Cholesterol oxidase; *Brevibacterium* sp.; Response surface methodology; Surfactant; Olive oil **prbi**, 901

Membrane bioreactor; Activated sludge; Aeration; Fouling; Flux; Sparging **prbi**, 915

Membrane bioreactor; Denitrification; Microfiltration; Ground water **prbi**, 57

Membrane cartridge; Protein purification; Dye binding; Large proteins **prbi**, 247

Membrane-lipid peroxidation; *Taxus chinensis* cell; Salicylic acid; Taxol; Fungal elicitor; Peroxidase (POD); Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

Mentha pulegium; Phenolics; Peroxidase; Poly R-478; *A. rhizogenes*; Phytoremediation **prbi**, 805

Mesophilic; Anaerobic digestion; Thermophilic; Temperature; Shock; Wastewater **prbi**, 589

Mesophilic and tropical climate temperatures; Anaerobic digestion; Piggery waste; Substrate concentration **prbi**, 483

Metabolic flux; pH-auxostat; *Corynebacterium glutamicum*; ATP; Reducing equivalents; Amino acid resolution **prbi**, 1455

Metabolic stress; Pulp density; Refractory concentrate; Stirred tank reactor; *Thiobacillus ferrooxidans* **prbi**, 1051

***Methanobacterium* sp.**; Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; Anaerobic; Treatment; UASB **prbi**, 1091

Methanogenic activity; Anaerobic filters; Long-chain fatty acids; Oleic acid toxicity; Shocks **prbi**, 387

Methanolysis; Lipase; Vegetable oils; Aqueous medium; *Cryptococcus* spp.; Rice bran oil **prbi**, 405

Methanosarecina mazei; Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanobacterium* sp.; Anaerobic; Treatment; UASB **prbi**, 1091

***Methanothrix* (*Methanosaeta*) sp.**; Granulation; Granule; CT; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; Treatment; UASB **prbi**, 1091

Methyl ester; Biodiesel; Diesohol; Palm oil; Extractant; Transesterification **prbi**, 65

Methyltransferase; *Escherichia coli*; *Taq* I; Secretion; MBP; Fusion protein **prbi**, 527

Microbeads; Cell growth; Mass transfer limitations; Electrostatic bead generator; Brewing yeast; Bead size **prbi**, 17

Microbial activities; Yard trimmings; Decomposition; Enzyme activities; Windrow composting **prbi**, 1057

Microbial diversity; Biofilter; Coke-oven wastewater; Microbial population; *Pseudomonas putida*; Quinone profile; Seawater; Treatment performance **prbi**, 943

Microbial exopolysaccharide; Fermentation; *Jaggery*; Pullulan; Cell biomass; Viscosity **prbi**, 359

Microbial population; Biofilter; Coke-oven wastewater; Microbial diversity; *Pseudomonas putida*; Quinone profile; Seawater; Treatment performance **prbi**, 943

Microfiltration; Membrane bioreactor; Denitrification; Ground water **prbi**, 57

Microlunatus phosphovorus; Polyphosphate metabolism; Polyphosphatase; Biochemical properties **prbi**, 799

Milk; Galactose; Enzymatic inhibition **prbi**, 267

Mixed carbon sources; *Enterococcus faecalis* RKY1; Lactic acid; Maltose metabolism; Preferred sugars; Carbon catabolite repression **prbi**, 235

Mixed culture; Bacteria; Crude oil; Water-in-oil emulsions; De-emulsification; Surfactant **prbi**, 1135

Mixed-cultures; *Phaffia rhodozyma*; *Xanthophyllomyces dendrorhous*; Two-stage batch fermentation; Astaxanthin **prbi**, 1235

Modelling; Biosorption; Heavy metals; Downstream processing; Environment **prbi**, 115

Mode of binding; Fluorescence criteria; Groove binders; Sequence specificity **prbi**, 521

Modification of glutaraldehyde; Immobilization; GL-7-ACA acylase; Optimization; Analysis of variance; Response surface methodology **prbi**, 153

Modified solid-state fermentation; Optimization; Factorial; EVOP; Filamentous fungi; Tannase **prbi**, 1395

Molecular connectivity index; Anoxic; Degradation; Denitrifier; Nitrate; Nitrogeneous heterocyclic compounds **prbi**, 81

Molecular weight; Xanthan; Agitation; Fermentation kinetics; Pyruvate **prbi**, 73

Monod equation; Anaerobic digestion; Process kinetics; Ice-cream wastewater; Contois equation **prbi**, 965

Monoterpenes; Bioconversion; α-Pinene; β-Pinene; Perillic acid; Cumic acid; Resting cells **prbi**, 739

Morphology; Aeration rate; *Cordyceps militaris*; *exo*-biopolymers; Submerged culture **prbi**, 1257

Multicomponent freundlich model; Three-metal biosorption; Fungal biosorbent; *Rhizopus arrhizus*; Multicomponent langmuir model **prbi**, 35

Multicomponent langmuir model; Three-metal biosorption; Fungal biosorbent; *Rhizopus arrhizus*; Multicomponent freundlich model **prbi**, 35

Multiplayer packed bed solid-state bioreactor; Citric acid; Apple pomace **prbi**, 909

Multiple chemostats; *Ralstonia eutropha*; Poly-3-hydroxybutyrate; PHB formation kinetics; PHA **prbi**, 219

Mungbean residue; Chitosan; Solid state fermentation; Soybean residue **prbi**, 727

Municipal; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Natural zeolite; Biological aerated filter; Textile wastewater treatment **prbi**, 693

Near infrared spectroscopy; Fourier transform mid infrared spectroscopy; Fourier transform Raman spectroscopy; Fermentation; Lactic acid; *Lactobacillus casei* **prbi**, 371

Negative chromatography; IMAC; Purification; Aprotinin; Affinity **prbi**, 1413

Neural control; Streptokinase fermentation; Inflow noise; Neural filtering **prbi**, 145

Neural filtering; Streptokinase fermentation; Inflow noise; Neural control **prbi**, 145

Nickel; Activated sludge; Biosorption; Dilution rate; Heavy metals; Linear isotherm **prbi**, 1307

Nickel; Biosorption; *Polyporous versicolor*; Heavy metals; Removal; White-rot fungi **prbi**, 723

Nisin; Lactic acid bacteria; Pediocin; Primary metabolite; Stability; Antibacterial activity **prbi**, 1005

Nitrate; Anoxic; Degradation; Denitrifier; Nitrogeneous heterocyclic compounds; Molecular connectivity index **prbi**, 81

Nitrate removal; Alkalinity; Autotrophic denitrification; Limestone dissolution; pH control; Sulphur/limestone reactor **prbi**, 885

Nitrogeneous heterocyclic compounds; Anoxic; Degradation; Denitrifier; Nitrate; Molecular connectivity index **prbi**, 81

Nitrogen recovery; Enzymic hydrolysis; Fish protein hydrolysate; Salmon frames; By-products; Optimisation; Protamex™ **prbi**, 1263

Nitzschia laevis; Fed-batch; High cell density; Diatom; Eicosapentaenoic acid; C:N ratio **prbi**, 1447

N loss; Composts; Animal manure; Forced-aeration; Compost maturity **prbi**, 869

Nocardioform; Desulphurization; Degradation; Benzothiophene; Flavin–oxidoreductase; Recombinant bacteria **prbi**, 31

Nutrient; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Surface charge; Bound water **prbi**, 983

Nylon sponge; Aeration rate; Ligninolytic enzymes; *Phanerochaete chrysosporium*; Rotating drum bioreactor; Solid-state fermentation **prbi**, 549

Oak wood chips; Brewing process; Laccase; *Lentinus edodes*; Malt-containing by-product; Manganese peroxidase **prbi**, 491

1-octen-3-ol; *Agaricus bisporus*; Lipoxygenase; Hydroperoxide lyase; Biogeneration **prbi**, 177

Oils; Lipases; *Rhizopus*; Meals; Sugarcane; *Baggase* **prbi**, 637

Okara; Isoflavones; Daidzein; Genistein; Glycitein; Soybeans; Whey; Value-added products **prbi**, 1117

Oleic acid; Anaerobic filter; Expanded granular sludge bed; Long chain fatty acid **prbi**, 1025

Oleic acid toxicity; Anaerobic filters; Long-chain fatty acids; Methanogenic activity; Shocks **prbi**, 387

Olive-mill waste; *Aspergillus terreus*; Degradation; Elimination rate; Kinetics **prbi**, 1169

Olive oil; Medium optimization; Cholesterol oxidase; *Brevibacterium* sp.; Response surface methodology; Surfactant **prbi**, 901

Olive trimming residues; Pulp; Paper; Bleach; Kraft **prbi**, 1

Opaque beer; High gravity; Fermentation **prbi**, 365

Optimal control; Bioreactor; Optimal temperature trajectory **prbi**, 379

Optimal temperature trajectory; Bioreactor; Optimal control **prbi**, 379

Optimisation; Enzymic hydrolysis; Fish protein hydrolysate; Salmon frames; By-products; Nitrogen recovery; Protamex™ **prbi**, 1263

Optimization; Immobilization; GL-7-ACA acylase; Modification of glutaraldehyde; Analysis of variance; Response surface methodology **prbi**, 153

Optimization; Modified solid-state fermentation; Factorial; EVOP; Filamentous fungi; Tannase **prbi**, 1395

Optimization; Response surface analysis; Factorial design; DMC control; Ethanol **prbi**, 125

Oregano extract; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Oregano extract; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Organic acid; Acetogen; *Eubacterium limosum*; Carbon monoxide; Synthesis-gas; Mass transfer limitation **prbi**, 411

Organic solvent; *Candida rugosa*; Lipase; Enzyme activity; Esterification; Surfactant **prbi**, 1229

Organic substrate removal; Washing wastewater black olives; Chemical treatments; Anaerobic digestion **prbi**, 257

Organosolv; Ethanol; Pulp; Paper; Wheat straw **prbi**, 665

Oxidizing agents; Alkaline lipase; *Burkholderia cepacia*; Detergent formulation **prbi**, 187

Ozone; Wastewater; Vinasse; Anaerobic digestion; Kinetics; UV **prbi**, 699

Packed bed reactor; *Pseudomonas testosteroni* CPW301; *Pseudomonas solanacearum* TCP114; Phenol; 4-chlorophenol; 2,4,6-Trichlorophenol; Biodegradation **prbi**, 1367

Packing material; Biodegradation; Biofiltration; Hydrogen sulphide; Elemental sulphur; Biofilter **prbi**, 813

Paclitaxel; Active clay; Plant cell culture; Precipitation; Prepurification **prbi**, 679

Palm oil; Biodiesel; Diesohol; Methyl ester; Extractant; Transesterification **prbi**, 65

Panax ginseng; Purification; Ginsenoside-α-arabinofuranase; 20(S)-Ginsenoside Rc; 20(S)-Ginsenoside Rd **prbi**, 793

Panax notoginseng; Ginseng polysaccharide; Conditioned medium; Airlift bioreactor; Plant cell suspension culture **prbi**, 209

Paper; Organosolv; Ethanol; Pulp; Wheat straw **prbi**, 665

Paper; Pulp; Bleach; Olive trimming residues; Kraft **prbi**, 1

Parameter estimation; Confidence intervals; Inert support; Gibberellins; Secondary metabolite; Urea **prbi**, 1033

Pectinases; *Rhizopus stolonifer*; *Aspergillus awamori*; Submerged culture; Whole wheat flour; Cereal raw material **prbi**, 497

Pectin lyase; *Thermoascus aurantiacus*; Polygalacturonase; Thermostable; Thermophilic; Solid-state fermentation **prbi**, 949

Pediocin; Lactic acid bacteria; Nisin; Primary metabolite; Stability; Antibacterial activity **prbi**, 1005

Penicillin acylase; DegP; *Escherichia coli*; Inclusion body; Localization; Protease **prbi**, 23

Penicillium chrysogenum; Differential–algebraic equations; Bioreactor modeling; DAE numerical solvers; Ceramic membrane; Mathematical model **prbi**, 1297

Pentachlorophenol tolerance and degradation; *Rhizopus nigricans*; Solid-state culture **prbi**, 881

Pentose phosphate pathway; Fava bean (*Vicia faba*); Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Pentose phosphate pathway; Fava bean (*Vicia faba*); Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Phenolics; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Perillic acid; Bioconversion; α-Pinene; β-Pinene; Cumic acid; Monoterpenes; Resting cells **prbi**, 739

Peroxidase; Carboxymethyl cellulose; Ion exchange; Protein precipitation; Thiophilic chromatography **prbi**, 431

Peroxidase; *Mentha pulegium*; Phenolics; Poly R-478; *A. rhizogenes*; Phytoremediation **prbi**, 805

Peroxidase (POD); *Taxus chinensis* cell; Salicylic acid; Taxol; Membrane-lipid peroxidation; Fungal elicitor; Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

Pesticides; *Azotobacter chroococcum*; Biodegradation; Plasticizer; Poly-β-hydroxybutyrate **prbi**, 719

Phaffia rhodozyma; *Xanthophyllomyces dendrorhous*; Two-stage batch fermentation; Astaxanthin; Mixed-cultures **prbi**, 1235

Phanerochaete chrysosporium; Aeration rate; Ligninolytic enzymes; Nylon sponge; Rotating drum bioreactor; Solid-state fermentation **prbi**, 549

Phanerochaete chrysosporium; Hg(II); Cd(II); Heavy metal; Alginate beads; Entrapment; Biosorbent; Uptake; Biosorption **prbi**, 601

Phanerochaete chrysosporium; Protease; Ligninolytic enzymes; *Phlebia radiata*; Solid state cultures; Carrier **prbi**, 1017

PHA; *Ralstonia eutropha*; Poly-3-hydroxybutyrate; PHB formation kinetics; Multiple chemostats **prbi**, 219

PHAs; Polyhydroxyalkanotes; Biodegradable polymers; Volatile fatty acids; Acid inhibition modeling; *R. eutropha* **prbi**, 731

pH-auxostat; *Corynebacterium glutamicum*; Metabolic flux; ATP; Reducing equivalents; Amino acid resolution **prbi**, 1455

pH-auxostat; Flux partitioning; Amino acids; Fermentation **prbi**, 775

PHB formation kinetics; *Ralstonia eutropha*; Poly-3-hydroxybutyrate; PHA; Multiple chemostats **prbi**, 219

pH control; Alkalinity; Autotrophic denitrification; Limestone dissolution; Nitrate removal; Sulphur/limestone reactor **prbi**, 885

pH control; *Streptomyces coelicolor*; Product shifting; Actinorhodin; Undecylprodigiosin **prbi**, 1381

Phenanthrene; Biodegradation; *Pseudomonas mendocina*; Kinetic study; Polycyclic aromatic hydrocarbon dioxygenase; Catechol-2,3-oxygenase **prbi**, 1431

Phenol derivatives; Biodegradation; *Trichosporon cutaneum*; Cometabolism **prbi**, 1215

Phenolics; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Phenolics; Fava bean (*Vicia faba*); Pentose phosphate pathway; Elicitors; Fish protein hydrolysates; Lactoferrin; Oregano extract; Glucose-6-phosphate dehydrogenase; Guaiacol peroxidase; Antioxidant activity; Levo dihydroxy phenylalanine **prbi**, 1247

Phenolics; *Mentha pulegium*; Peroxidase; Poly R-478; *A. rhizogenes*; Phytoremediation **prbi**, 805

Phenol; *Pseudomonas testosteroni* CPW301; *Pseudomonas solanacearum* TCP114; 4-chlorophenol; 2,4,6-Trichlorophenol; Biodegradation; Packed bed reactor **prbi**, 1367

Phlebia radiata; Protease; Ligninolytic enzymes; *Phanerochaete chrysosporium*; Solid state cultures; Carrier **prbi**, 1017

Phosphatase activity; *Aspergillus niger*; Copper uptake **prbi**, 753

Phosphate; *Halobacterium salinarium*; Polyphosphate; Accumulation; Reserve **prbi**, 643

Phosphorus; Biofilm fluidised reactors; Denitrification; Biofilm characteristics; Density; Carbon/Nitrogen ratio **prbi**, 837

Photobioreactor; *Spirulina platensis*; Life support system; Food source; Cell harvesting; Drying methods **prbi**, 535

Phthalocyanine dye; Reactive Turquoise Blue; Anaerobic biological treatment; Aerobic biological treatment; Biosorption; Biodegradation **prbi**, 1151

pH value effects; Candida utilis; Yeast dehydration; Cr(VI) sorption; Chromate anions **prbi**, 505

Phytase; *Pichia anomala*; Response surface methodology; Media component **prbi**, 999

Phytoremediation; *Mentha pulegium*; Phenolics; Peroxidase; Poly R-478; *A. rhizogenes* **prbi**, 805

Phytoremediation; Rhizosphere; Alfalfa; Rhizobia; Polychlorinated biphenyls **prbi**, 955

Pichia anomala; Phytase; Response surface methodology; Media component **prbi**, 999

Piggery waste; Anaerobic digestion; Substrate concentration; Mesophilic and tropical climate temperatures **prbi**, 483

Pig skin; Collagen; Fish bone; Extraction; Enzymic hydrolysis **prbi**, 1403

β-Pinene; Bioconversion; α-Pinene; Perillic acid; Cumic acid; Monoterpenes; Resting cells **prbi**, 739

α-Pinene; Bioconversion; β-Pinene; Perillic acid; Cumic acid; Monoterpenes; Resting cells **prbi**, 739

Plant cell culture; Active clay; Paclitaxel; Precipitation; Prepurification **prbi**, 679

Plant cell suspension culture; *Panax notoginseng*; Ginseng polysaccharide; Conditioned medium; Airlift bioreactor **prbi**, 209

Plasticizer; *Azotobacter chroococcum*; Biodegradation; Poly-β-hydroxybutyrate; Pesticides **prbi**, 719

Polychaeta; Adsorption; Alkaline protease; Diaion HP 20; Hydrophobic chromatography; Purification **prbi**, 299

Polychlorinated biphenyls; Phytoremediation; Rhizosphere; Alfalfa; Rhizobia **prbi**, 955

Polyclonal antibodies; Enzyme immobilization; *Eco*RI; Enzyme stabilization **prbi**, 275

Polycyclic aromatic hydrocarbon dioxygenase; Phenanthrene; Biodegradation; *Pseudomonas mendocina*; Kinetic study; Catechol-2,3-oxygenase **prbi**, 1431

Polygalacturonase; *Thermoascus aurantiacus*; Pectin lyase; Thermostable; Thermophilic; Solid-state fermentation **prbi**, 949

Polyhydroxyalkanotes; PHAs; Biodegradable polymers; Volatile fatty acids; Acid inhibition modeling; *R. eutropha* **prbi**, 731

Poly-β-hydroxybutyrate; *Azotobacter chroococcum*; Biodegradation; Plasticizer; Pesticides **prbi**, 719

Poly-3-hydroxybutyrate; *Ralstonia eutropha*; PHB formation kinetics; PHA; Multiple chemostats **prbi**, 219

Polymer membrane; Cell immobilization; Thermophilic bacilli; Thermostable exo-inulinase; Inulin; High fructose syrups **prbi**, 863

Polyphosphatase; Polyphosphate metabolism; Biochemical properties; *Microlunatus phosphovorus* **prbi**, 799

Polyphosphate; *Halobacterium salinarium*; Phosphate; Accumulation; Reserve **prbi**, 643

Polyphosphate metabolism; Polyphosphatase; Biochemical properties; *Microlunatus phosphovorus* **prbi**, 799

Polyporous versicolor; Biosorption; Heavy metals; Nickel; Removal; White-rot fungi **prbi**, 723

Poly R-478; *Mentha pulegium*; Phenolics; Peroxidase; *A. rhizogenes*; Phytoremediation **prbi**, 805

Polysaccharide; Ganoderma lucidum; Ganoderic acid; Higher fungi; Initial pH; Submerged fermentation **prbi**, 769

Polysaccharide; *Ganoderma lucidum*; Ganoderic acid; Higher fungi; Inoculation density; Fermentation technology **prbi**, 1375

Polyurethane foam; Wastewater treatment; Anaerobic process; Sulphate reduction; Fixed-bed reactor **prbi**, 927

Precipitation; Active clay; Paclitaxel; Plant cell culture; Prepurification **prbi**, 679

Predator bacteria; Viability; Effect of pollutants **prbi**, 1177

Preferred sugars; *Enterococcus faecalis* RKY1; Lactic acid; Mixed carbon sources; Maltose metabolism; Carbon catabolite repression **prbi**, 235

Prepurification; Active clay; Paclitaxel; Plant cell culture; Precipitation **prbi**, 679

Preservation; Deodorization; Food poisoning bacteria; Kitchen waste; Lactic acid; Lactic acid bacteria **prbi**, 351

Pressure oscillation; Charcoal; *Rhizobium leguminosarum*; Solid-state fermenter **prbi**, 165

Pretreatments; Lignocellulosics; Wheat straw; Cellulase; Glucose; Xylose **prbi**, 937

Primary metabolite; Lactic acid bacteria; Nisin; Pediocin; Stability; Antibacterial activity **prbi**, 1005

Process kinetics; Anaerobic digestion; Ice-cream wastewater; Monod equation; Contois equation **prbi**, 965

Process variables; Wheat starch hydrolysis; α-Amylase enzyme inactivation; Mathematical modelling; Stirred batch bioreactor **prbi**, 87

Productivity; Lactic acid bacteria; Heterofermentative; *Lactobacillus*; *Leuconostoc*; Mannitol **prbi**, 1207

Product shifting; *Streptomyces coelicolor*; Actinorhodin; pH control; Undecylprodigiosin **prbi**, 1381

Proline; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Proline-linked pentose phosphate pathway (PPP); Fava bean (*Vicia faba*); Ultra violet light; Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Protamex™; Enzymic hydrolysis; Fish protein hydrolysate; Salmon frames; By-products; Nitrogen recovery; Optimisation **prbi**, 1263

Protease; Cell lytic enzyme; *Pseudomonas* sp.; *Xanthomonas campestris*; Xanthan gum; Clarification; Purification **prbi**, 611

Protease; DegP; *Escherichia coli*; Inclusion body; Localization; Penicillin acylase **prbi**, 23

Protease; Ligninolytic enzymes; *Phanerochaete chrysosporium*; *Phlebia radiata*; Solid state cultures; Carrier **prbi**, 1017

Proteases; Glucoamylase; *Aspergillus niger*; Fungal morphology; Inoculum **prbi**, 1271

Protein precipitation; Carboxymethyl cellulose; Ion exchange; Peroxidase; Thiophilic chromatography **prbi**, 431

Protein purification; Dye binding; Large proteins; Membrane cartridge **prbi**, 247

Proteins; Chitin; Lactic acid fermentation; Silage; *Lactobacillus* spp. **prbi**, 1359

Pseudomonas mendocina; Phenanthrene; Biodegradation; Kinetic study; Polycyclic aromatic hydrocarbon dioxygenase; Catechol-2,3-oxygenase **prbi**, 1431

Pseudomonas putida; Biofilter; Coke-oven wastewater; Microbial population; Microbial diversity; Quinone profile; Seawater; Treatment performance **prbi**, 943

Pseudomonas putida; Distillery spentwash; Chemical oxygen demand reduction; Colour removal; *Aeromonas* strain; *Chlorella vulgaris* **prbi**, 857

***Pseudomonas solanacearum* TCP114**; *Pseudomonas testosteroni* CPW301; Phenol; 4-chlorophenol; 2,4,6-Trichlorophenol; Biodegradation; Packed bed reactor **prbi**, 1367

***Pseudomonas* sp.**; Cell lytic enzyme; *Xanthomonas campestris*; Xanthan gum; Clarification; Purification; Protease **prbi**, 611

***Pseudomonas testosteroni* CPW301**; *Pseudomonas solanacearum* TCP114; Phenol; 4-chlorophenol; 2,4,6-Trichlorophenol; Biodegradation; Packed bed reactor **prbi**, 1367

Pullulan; Fermentation; *Jaggery*; Microbial exopolysaccharide; Cell biomass; Viscosity **prbi**, 359

Pulp density; Metabolic stress; Refractory concentrate; Stirred tank reactor; *Thiobacillus ferrooxidans* **prbi**, 1051

Pulp; Organosolv; Ethanol; Paper; Wheat straw **prbi**, 665

Pulp; Paper; Bleach; Olive trimming residues; Kraft **prbi**, 1

Purification; Adsorption; Alkaline protease; Diaion HP 20; Hydrophobic chromatography; Polychaeta **prbi**, 299

Purification; Alkaline; Lipase; Thermophilic; *Bacillus* sp; Thermostable **prbi**, 1075

Purification; *Bacillus macerans* EG-6; Transfructosylating enzyme; Fructo-oligosaccharide **prbi**, 471

Purification; Cell lytic enzyme; *Pseudomonas* sp.; *Xanthomonas campestris*; Xanthan gum; Clarification; Protease **prbi**, 611

Purification; Ginsenoside-α-arabinofuranase; 20(S)-Ginsenoside Rc; 20(S)-Ginsenoside Rd; *Panax ginseng* **prbi**, 793

Purification; IMAC; Aprotinin; Negative chromatography; Affinity **prbi**, 1413

Purification; IMAC; IgG; Human plasma; Chromatography; Affinity **prbi**, 573

Pyruvate; Xanthan; Agitation; Fermentation kinetics; Molecular weight **prbi**, 73

Quinoline; Co-metabolism; Glucose; Biodegradation; Kinetics; *Burkholderia pickettii* **prbi**, 831

Quinone profile; Biofilter; Coke-oven wastewater; Microbial population; Microbial diversity; *Pseudomonas putida*; Seawater; Treatment performance **prbi**, 943

Radiation; Acrylamide/maleic acid; Hydrogel; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 1351

Radiation; 2-Hydroxyethyl methacrylate/acrylamide; Hydrogel; Immobilization; *Saccharomyces cerevisiae*; Ethyl alcohol **prbi**, 651

Ralstonia eutropha; Poly-3-hydroxybutyrate; PHB formation kinetics; PHA; Multiple chemostats **prbi**, 219

Rate processes; Activated sludge biomass; Adsorption rate; Boundary layer; Intraparticle diffusion; Activation energy **prbi**, 1129

Reactive Turquoise Blue; Phthalocyanine dye; Anaerobic biological treatment; Aerobic biological treatment; Biosorption; Biodegradation **prbi**, 1151

Recombinant bacteria; Desulphurization; Degradation; Benzothiophene; Flavin–oxidoreductase; Nocardioform **prbi**, 31

Recombinant yeast; Starch bioconversion; Bifunctional fusion protein; Cybernetic modelling; Substitutable substrates **prbi**, 1439

Recombinant yeast; Starch bioconversion; Ethanol; Fermentation; Amylolytic enzymes; Fed-batch **prbi**, 1157

Reducing equivalents; pH-auxostat; *Corynebacterium glutamicum*; Metabolic flux; ATP; Amino acid resolution **prbi**, 1455

Refractory concentrate; Metabolic stress; Pulp density; Stirred tank reactor; *Thiobacillus ferrooxidans* **prbi**, 1051

Regulation; Alkaline protease; *Bacillus mojavensis*; Fed-batch; De-repression **prbi**, 1103

Removal; Biosorption; *Polyporous versicolor*; Heavy metals; Nickel; White-rot fungi **prbi**, 723

Reserve; *Halobacterium salinarium*; Phosphate; Polyphosphate; Accumulation **prbi**, 643

Respiration; Biosensor; *Rhodococcus erythropolis*; 2,4-dinitrophenol; Ethanol; Cooxidation **prbi**, 683

Response surface analysis; Factorial design; Optimization; DMC control; Ethanol **prbi**, 125

Response surface methodology; Amino acids; Extraction; Liquid membrane **prbi**, 169

Response surface methodology; Immobilization; GL-7-ACA acylase; Modification of glutaraldehyde; Optimization; Analysis of variance **prbi**, 153

Response surface methodology; Medium optimization; Cholesterol oxidase; *Brevibacterium* sp.; Surfactant; Olive oil **prbi**, 901

Response surface methodology; Phytase; *Pichia anomala*; Media component **prbi**, 999

Response surface methodology (RSM); Central composite rotatable design (CCRD); Enzymatic synthesis; Esterification; Isoamyl isobutyrate; Lipozyme IM-20; *Rhizomucor miehei* lipase **prbi**, 9

Resting cells; Bioconversion; α-Pinene; β-Pinene; Perillic acid; Cumic acid; Monoterpenes **prbi**, 739

R. eutropha; Polyhydroxyalkanotes; PHAs; Biodegradable polymers; Volatile fatty acids; Acid inhibition modeling **prbi**, 731

Rhizobia; Phytoremediation; Rhizosphere; Alfalfa; Polychlorinated biphenyls **prbi**, 955

Rhizobium leguminosarum; Charcoal; Pressure oscillation; Solid-state fermenter **prbi**, 165

***Rhizomucor miehei* lipase**; Central composite rotatable design (CCRD); Enzymatic synthesis; Esterification; Isoamyl isobutyrate; Lipozyme IM-20; Response surface methodology (RSM) **prbi**, 9

Rhizopus arrhizus; Three-metal biosorption; Fungal biosorbent; Multicomponent freundlich model; Multicomponent langmuir model **prbi**, 35

Rhizopus; Dextran; Immobilization; Cellulose support; Continuous fermentation; Lignin induction **prbi**, 395

Rhizopus; Lipases; Meals; Oils; Sugarcane; *Baggase* **prbi**, 637

Rhizopus nigricans; Pentachlorophenol tolerance and degradation; Solid-state culture **prbi**, 881

Rhizopus stolonifer; Pectinases; *Aspergillus awamori*; Submerged culture; Whole wheat flour; Cereal raw material **prbi**, 497

Rhizosphere; Phytoremediation; Alfalfa; Rhizobia; Polychlorinated biphenyls **prbi**, 955

Rhodococcus erythropolis; Biosensor; Respiration; 2,4-dinitrophenol; Ethanol; Cooxidation **prbi**, 683

Rhodococcus rhodochrous; Toluene; Styrene; Biofiltration; Deodorization; *Acinetobacter sp* **prbi**, 423

Rice bran oil; Lipase; Methanolysis; Vegetable oils; Aqueous medium; *Cryptococcus* spp. **prbi**, 405

Rotating biodiscs; Rotating perforated tubes; Wastewater treatment **prbi**, 1201

Rotating biological contactor; Denitrification; Disks submergence; Biofilm activity; Biofilm composition **prbi**, 345

Rotating biological contactors; Biopack; Bakers yeast; High strength wastewater; Wastewater treatment **prbi**, 447

Rotating drum bioreactor; Aeration rate; Ligninolytic enzymes; Nylon sponge; *Phanerochaete chrysosporium*; Solid-state fermentation **prbi**, 549

Rotating perforated tubes; Rotating biodiscs; Wastewater treatment **prbi**, 1201

(*R*,*S*)-Naproxen methyl ester; *Candida rugosa* lipase (CRL); Enantioselective hydrolysis; (*S*)-Naproxen; Two-step acetone treatment **prbi**, 293

Saccharomyces cerevisiae; Acrylamide/maleic acid; Hydrogel; Radiation; Immobilization; Ethyl alcohol **prbi**, 1351

Saccharomyces cerevisiae; Bioadsorption; Isotherm; Mechanism; Waste biomass; Copper **prbi**, 847

Saccharomyces cerevisiae; 2-Hydroxyethyl methacrylate/acrylamide; Hydrogel; Radiation; Immobilization; Ethyl alcohol **prbi**, 651

Salicylic acid; *Taxus chinensis* cell; Taxol; Membrane-lipid peroxidation; Fungal elicitor; Peroxidase (POD); Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

Salinity stress; Astaxanthin; Culture age; *Haematococcus pluvialis* **prbi**, 623

Salmon frames; Enzymic hydrolysis; Fish protein hydrolysate; By-products; Nitrogen recovery; Optimisation; Protamex™ **prbi**, 1263

Santalum album; Somatic embryogenesis; Media optimisation; Statistical design **prbi**, 51

Scale-up; *Escherichia coli*; Fermentation; K99 fimbriae; Vaccine; Bioreactor **prbi**, 1195

Seawater; Biofilter; Coke-oven wastewater; Microbial population; Microbial diversity; *Pseudomonas putida*; Quinone profile; Treatment performance **prbi**, 943

Secondary metabolite; Confidence intervals; Inert support; Gibberellins; Parameter estimation; Urea **prbi**, 1033

Secretion; *Escherichia coli*; *Taq* I; Methyltransferase; MBP; Fusion protein **prbi**, 527

Sequence specificity; Fluorescence criteria; Groove binders; Mode of binding **prbi**, 521

Sequencing batch reactor; Bis(2-ethylhexyl) phthalate; Bacteria; Soil slurry; Biodegradation **prbi**, 305

Severity factor; Acetyl groups; Autohydrolysis; Corncobs; *Eucalyptus globulus*; Hemicelluloses; Xylan **prbi**, 1067

Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

20(S)-Ginsenoside Rc; Purification; Ginsenoside-α-arabinofuranase; 20(S)-Ginsenoside Rd; *Panax ginseng* **prbi**, 793

20(S)-Ginsenoside Rd; Purification; Ginsenoside-α-arabinofuranase; 20(S)-Ginsenoside Rc; *Panax ginseng* **prbi**, 793

Shock; Anaerobic digestion; Mesophilic; Thermophilic; Temperature; Wastewater **prbi**, 589

Shocks; Anaerobic filters; Long-chain fatty acids; Methanogenic activity; Oleic acid toxicity **prbi**, 387

Silage; Chitin; Proteins; Lactic acid fermentation; *Lactobacillus* spp. **prbi**, 1359

Sludge disposal; Sewage sludge; Wastewater sludge; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Sludge recycling; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Sludge treatment; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

(*S*)-Naproxen; *Candida rugosa* lipase (CRL); Enantioselective hydrolysis; (*R*,*S*)-Naproxen methyl ester; Two-step acetone treatment **prbi**, 293

Sodium aluminate; Lactulose; Isomerization; Sodium hydroxide; Boric acid **prbi**, 629

Sodium hydroxide; Lactulose; Isomerization; Boric acid; Sodium aluminate **prbi**, 629

Soil slurry; Bis(2-ethylhexyl) phthalate; Bacteria; Sequencing batch reactor; Biodegradation **prbi**, 305

Solid-state culture; Pentachlorophenol tolerance and degradation; *Rhizopus nigricans* **prbi**, 881

Solid state cultures; Protease; Ligninolytic enzymes; *Phanerochaete chrysosporium*; *Phlebia radiata*; Carrier **prbi**, 1017

Solid-state fermentation; Aeration rate; Ligninolytic enzymes; Nylon sponge; *Phanerochaete chrysosporium*; Rotating drum bioreactor **prbi**, 549

Solid-state fermentation; *Aspergillus oryzae*; Amyloglucosidase; Glucoamylase; Starch-gel digestion **prbi**, 453

Solid state fermentation; Chitosan; Mungbean residue; Soybean residue **prbi**, 727

Solid-state fermentation; β-Fructofuranosidase; Invertase; Sucrase; Media optimization; *Aspergillus niger* **prbi**, 331

Solid-state fermentation; *Thermoascus aurantiacus*; Polygalacturonase; Pectin lyase; Thermostable; Thermophilic **prbi**, 949

Solid-state fermenter; Charcoal; *Rhizobium leguminosarum*; Pressure oscillation **prbi**, 165

Somatic embryogenesis; Media optimisation; Statistical design; *Santalum album* **prbi**, 51

Sorghum; Enzymes; Mashing; Wort; Extract; Fermentation **prbi**, 851

Sorption; Agriculture product; Copper; Zinc; Lead; Tree fern **prbi**, 1421

Soybean residue; Chitosan; Mungbean residue; Solid state fermentation **prbi**, 727

Soybeans; Isoflavones; Daidzein; Genistein; Glycitein; Okara; Whey; Value-added products **prbi**, 1117

Sparging; Activated sludge; Aeration; Fouling; Flux; Membrane bioreactor **prbi**, 915

Spirulina platensis; Photobioreactor; Life support system; Food source; Cell harvesting; Drying methods **prbi**, 535

Spruce budworm; Sewage sludge; Wastewater sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Stability; Lactic acid bacteria; Nisin; Pediocin; Primary metabolite; Antibacterial activity **prbi**, 1005

Starch bioconversion; Recombinant yeast; Bifunctional fusion protein; Cybernetic modelling; Substitutable substrates **prbi**, 1439

Starch bioconversion; Recombinant yeast; Ethanol; Fermentation; Amylolytic enzymes; Fed-batch **prbi**, 1157

Starch-gel digestion; *Aspergillus oryzae*; Amyloglucosidase; Glucoamylase; Solid-state fermentation **prbi**, 453

Statistical design; Somatic embryogenesis; Media optimisation; *Santalum album* **prbi**, 51

Stirred batch bioreactor; Wheat starch hydrolysis; α-Amylase enzyme inactivation; Process variables; Mathematical modelling **prbi**, 87

Stirred tank reactor; Metabolic stress; Pulp density; Refractory concentrate; *Thiobacillus ferrooxidans* **prbi**, 1051

Streptokinase fermentation; Inflow noise; Neural filtering; Neural control **prbi**, 145

Streptomyces coelicolor; Product shifting; Actinorhodin; pH control; Undecylprodigiosin **prbi**, 1381

Styrene; Toluene; Biofiltration; Deodorization; *Acinetobacter sp*; *Rhodococcus rhodochrous* **prbi**, 423

Submerged culture; Aeration rate; *Cordyceps militaris*; *exo*-biopolymers; Morphology **prbi**, 1257

Submerged culture; Pectinases; *Rhizopus stolonifer*; *Aspergillus awamori*; Whole wheat flour; Cereal raw material **prbi**, 497

Submerged fermentation; Ganoderma lucidum; Ganoderic acid; Higher fungi; Initial pH; Polysaccharide **prbi**, 769

Substitutable substrates; Recombinant yeast; Starch bioconversion; Bifunctional fusion protein; Cybernetic modelling **prbi**, 1439

Substrate concentration; Anaerobic digestion; Piggery waste; Mesophilic and tropical climate temperatures **prbi**, 483

Sucrase; β-Fructofuranosidase; Invertase; Solid-state fermentation; Media optimization; *Aspergillus niger* **prbi**, 331

Sugarcane; Lipases; *Rhizopus*; Meals; Oils; *Baggase* **prbi**, 637

Sulphate reduction; Wastewater treatment; Anaerobic process; Fixed-bed reactor; Polyurethane foam **prbi**, 927

Sulphur/limestone reactor; Alkalinity; Autotrophic denitrification; Limestone dissolution; Nitrate removal; pH control **prbi**, 885

Supervisory control; Fed-batch culture; Antibiotic; Cephalosporin C; Fuzzy logic; Inverted sucrose feeding **prbi**, 461

Surface charge; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; SVI; Hydrophobicity; Bound water; Nutrient **prbi**, 983

Surfactant; *Candida rugosa*; Lipase; Enzyme activity; Esterification; Organic solvent **prbi**, 1229

Surfactant; Medium optimization; Cholesterol oxidase; *Brevibacterium* sp.; Response surface methodology; Olive oil **prbi**, 901

Surfactant; Mixed culture; Bacteria; Crude oil; Water-in-oil emulsions; De-emulsification **prbi**, 1135

Suspensions; *Bacillus subtilis*; Absorbance additivity; Turbidimetric; Torula yeast; Bacterial growth **prbi**, 1125

SVI; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Winery; Municipal; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Synthesis; Decolorization; Disazo dyes; Laccase; Textile **prbi**, 581

Synthesis-gas; Acetogen; *Eubacterium limosum*; Carbon monoxide; Mass transfer limitation; Organic acid **prbi**, 411

Synthetic medium; Thermostable; Alkaline protease; Alkalophilic; *Bacillus* spp. **prbi**, 139

Tannase; Modified solid-state fermentation; Optimization; Factorial; EVOP; Filamentous fungi **prbi**, 1395

***Taq* I**; *Escherichia coli*; Methyltransferase; Secretion; MBP; Fusion protein **prbi**, 527

Taxol; *Taxus chinensis* cell; Salicylic acid; Membrane-lipid peroxidation; Fungal elicitor; Peroxidase (POD); Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

***Taxus chinensis* cell**; Salicylic acid; Taxol; Membrane-lipid peroxidation; Fungal elicitor; Peroxidase (POD); Glucose-6-phosphate dehydrogenase (G6PDH) **prbi**, 477

***t*-Butanol**; Three phase partitioning; Bifunctional protease/amylase inhibitor **prbi**, 193

Temperature; Anaerobic digestion; Mesophilic; Thermophilic; Shock; Wastewater **prbi**, 589

***Tert*-butylhydroperoxide**; Epicatechin; Antioxidant enzymes; Glutathione **prbi**, 659

Textile; Decolorization; Disazo dyes; Laccase; Synthesis **prbi**, 581

Textile dyestuff; Box–Wilson design; Decolorization **prbi**, 973

Textile wastewater treatment; Biological aerated filter; Natural zeolite **prbi**, 693

Thermoascus aurantiacus; Polygalacturonase; Pectin lyase; Thermostable; Thermophilic; Solid-state fermentation **prbi**, 949

Thermolysin; Aspartame; Enzymic reaction; Eutectic mixture **prbi**, 279

Thermomyces lanuginosus; Biobleaching; Xylanase; Bagasse pulp; Chlorine dioxide **prbi**, 567

Thermomyces lanuginosus; Hemicellulases; Xylanase; Aeration **prbi**, 1221

Thermophilic; Alkaline; Lipase; *Bacillus* sp; Purification; Thermostable **prbi**, 1075

Thermophilic; Anaerobic digestion; Mesophilic; Temperature; Shock; Wastewater **prbi**, 589

Thermophilic bacilli; Cell immobilization; Thermostable exo-inulinase; Inulin; Polymer membrane; High fructose syrups **prbi**, 863

Thermophilic; *Thermoascus aurantiacus*; Polygalacturonase; Pectin lyase; Thermostable; Solid-state fermentation **prbi**, 949

Thermostable; Alkaline; Lipase; Thermophilic; *Bacillus* sp; Purification **prbi**, 1075

Thermostable; Alkaline protease; Synthetic medium; Alkalophilic; *Bacillus* spp. **prbi**, 139

Thermostable exo-inulinase; Cell immobilization; Thermophilic bacilli; Inulin; Polymer membrane; High fructose syrups **prbi**, 863

Thermostable; *Thermoascus aurantiacus*; Polygalacturonase; Pectin lyase; Thermophilic; Solid-state fermentation **prbi**, 949

Thiele module; *Kluyveromyces marxianus*; Immobilized cells; Barium alginate; Inulinase; Diffusion coefficient **prbi**, 513

Thiobacillus ferrooxidans; H_2S oxidation; *Thiobacillus thiooxidans* **prbi**, 111

Thiobacillus ferrooxidans; Metabolic stress; Pulp density; Refractory concentrate; Stirred tank reactor **prbi**, 1051

Thiobacillus thiooxidans; H_2S oxidation; *Thiobacillus ferrooxidans* **prbi**, 111

Thiophilic chromatography; Carboxymethyl cellulose; Ion exchange; Peroxidase; Protein precipitation **prbi**, 431

Three-metal biosorption; Fungal biosorbent; *Rhizopus arrhizus*; Multicomponent freundlich model; Multicomponent langmuir model **prbi**, 35

Three phase partitioning; Bifunctional protease/amylase inhibitor; *t*-Butanol **prbi**, 193

Titanium-activated magnetite; Immobilization; Levan; Levansucrase; *Zymomonas mobilis* **prbi**, 339

Toluene; Styrene; Biofiltration; Deodorization; *Acinetobacter sp*; *Rhodococcus rhodochrous* **prbi**, 423

Torula yeast; *Bacillus subtilis*; Absorbance additivity; Turbidimetric; Suspensions; Bacterial growth **prbi**, 1125

Total phenolics; Fava bean (*Vicia faba*); Ultra violet light; Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; L-DOPA; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Transesterification; Biodiesel; Diesohol; Palm oil; Methyl ester; Extractant **prbi**, 65

Transfructosylating enzyme; *Bacillus macerans* EG-6; Fructo-oligosaccharide; Purification **prbi**, 471

Treatment; Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; UASB **prbi**, 1091

Treatment performance; Biofilter; Coke-oven wastewater; Microbial population; Microbial diversity; *Pseudomonas putida*; Quinone profile; Seawater **prbi**, 943

Tree fern; Agriculture product; Sorption; Copper; Zinc; Lead **prbi**, 1421

2,4,6-Trichlorophenol; *Pseudomonas testosteroni* CPW301; *Pseudomonas solanacearum* TCP114; Phenol; 4-chlorophenol; Biodegradation; Packed bed reactor **prbi**, 1367

Trichosporon cutaneum; Biodegradation; Phenol derivatives; Cometabolism **prbi**, 1215

Turbidimetric; *Bacillus subtilis*; Absorbance additivity; Torula yeast; Suspensions; Bacterial growth **prbi**, 1125

Two phase system.; Extractive fermentation; Citric acid production **prbi**, 759

Two-stage batch fermentation; *Phaffia rhodozyma*; *Xanthophyllomyces dendrorhous*; Astaxanthin; Mixed-cultures **prbi**, 1235

Two-step acetone treatment; *Candida rugosa* lipase (CRL); Enantioselective hydrolysis; (*S*)-Naproxen; (*R*,*S*)-Naproxen methyl ester **prbi**, 293

UASB; Granulation; Granule; CT; *Methanothrix* (*Methanosaeta*) sp.; *Methanosarecina mazei*; *Methanobacterium* sp.; Anaerobic; Treatment **prbi**, 1091

Ultra violet light; Fava bean (*Vicia faba*); Proline-linked pentose phosphate pathway (PPP); Glucose-6-phosphate dehydrogenase; Total phenolics; L-DOPA; Proline; Guaiacol peroxidase; Antioxidant activity **prbi**, 1285

Undecylprodigiosin; *Streptomyces coelicolor*; Product shifting; Actinorhodin; pH control **prbi**, 1381

Uptake; Hg(II); Cd(II); Heavy metal; Alginate beads; Entrapment; Biosorbent; Biosorption; *Phanerochaete chrysosporium* **prbi**, 601

Urea; Confidence intervals; Inert support; Gibberellins; Parameter estimation; Secondary metabolite **prbi**, 1033

UV; Wastewater; Vinasse; Anaerobic digestion; Kinetics; Ozone **prbi**, 699

Vaccine; *Escherichia coli*; Scale-up; Fermentation; K99 fimbriae; Bioreactor **prbi**, 1195

Value-added products; Isoflavones; Daidzein; Genistein; Glycitein; Soybeans; Okara; Whey **prbi**, 1117

Vegetable oils; Lipase; Methanolysis; Aqueous medium; *Cryptococcus* spp.; Rice bran oil **prbi**, 405

Viability; Predator bacteria; Effect of pollutants **prbi**, 1177

Vinasse; Biodegradability; Compost; Compost kinetic; Grape marc **prbi**, 1143

Vinasse; Wastewater; Anaerobic digestion; Kinetics; Ozone; UV **prbi**, 699

Viscosity; Fermentation; *Jaggery*; Microbial exopolysaccharide; Pullulan; Cell biomass **prbi**, 359

Volatile fatty acids; Polyhydroxyalkanotes; PHAs; Biodegradable polymers; Acid inhibition modeling; *R. eutropha* **prbi**, 731

Washing wastewater black olives; Organic substrate removal; Chemical treatments; Anaerobic digestion **prbi**, 257

Waste biomass; Bioadsorption; Isotherm; Mechanism; Copper; *Saccharomyces cerevisiae* **prbi**, 847

Wastewater; Anaerobic digestion; Mesophilic; Thermophilic; Temperature; Shock **prbi**, 589

Wastewater sludge; Sewage sludge; Sludge disposal; Sludge treatment; Sludge recycling; Biopesticides; *Bacillus thuringiensis*; Spruce budworm; Entomotoxicity; *Choristoneura fumiferana* **prbi**, 197

Wastewater treatment; Anaerobic process; Sulphate reduction; Fixed-bed reactor; Polyurethane foam **prbi**, 927

Wastewater treatment; Biopack; Bakers yeast; Rotating biological contactors; High strength wastewater **prbi**, 447

Wastewater treatment; Rotating perforated tubes; Rotating biodiscs **prbi**, 1201

Wastewater; Vinasse; Anaerobic digestion; Kinetics; Ozone; UV **prbi**, 699

Water-in-oil emulsions; Mixed culture; Bacteria; Crude oil; De-emulsification; Surfactant **prbi**, 1135

Wheat starch hydrolysis; α-Amylase enzyme inactivation; Process variables; Mathematical modelling; Stirred batch bioreactor **prbi**, 87

Wheat straw; Lignocellulosics; Pretreatments; Cellulase; Glucose; Xylose **prbi**, 937

Wheat straw; Organosolv; Ethanol; Pulp; Paper **prbi**, 665

Whey; Isoflavones; Daidzein; Genistein; Glycitein; Soybeans; Okara; Value-added products **prbi**, 1117

Whey permeate; Whey protein hydrolysate; Lactic acid fermentation **prbi**, 183

Whey protein hydrolysate; Lactic acid fermentation; Whey permeate **prbi**, 183

White-rot fungi; Biosorption; *Polyporous versicolor*; Heavy metals; Nickel; Removal **prbi**, 723

Whole wheat flour; Pectinases; *Rhizopus stolonifer*; *Aspergillus awamori*; Submerged culture; Cereal raw material **prbi**, 497

Windrow composting; Microbial activities; Yard trimmings; Decomposition; Enzyme activities **prbi**, 1057

Wine making; Freeze dried; Immobilization; Gluten pellets; Low-temperature **prbi**, 707

Winery; Extracellular polymeric substances (EPS); Floc; Filamentous bacteria; Chemical; Leather; Dye; Municipal; SVI; Hydrophobicity; Surface charge; Bound water; Nutrient **prbi**, 983

Winery wastewater; Jet-loop reactor; Aerobic treatment; Activated sludge **prbi**, 821

Wood-rotting fungi; Laccase; *Cerrena unicolor*; Enzyme immobilization **prbi**, 1387

Wort recovery; Cold trub; Cold storage tank; Malt beverage plant; Commercial enzymes **prbi**, 787

Wort; Sorghum; Enzymes; Mashing; Extract; Fermentation **prbi**, 851

Xanthan; Agitation; Fermentation kinetics; Pyruvate; Molecular weight **prbi**, 73

Xanthan gum; Cell lytic enzyme; *Pseudomonas* sp.; *Xanthomonas campestris*; Clarification; Purification; Protease **prbi**, 611

Xanthomonas campestris; Cell lytic enzyme; *Pseudomonas* sp.; Xanthan gum; Clarification; Purification; Protease **prbi**, 611

Xanthomonas oryzae; Inulooligosaccharides; Endoinulinase; Enzyme purification **prbi**, 1325

Xanthophyllomyces dendrorhous; *Phaffia rhodozyma*; Two-stage batch fermentation; Astaxanthin; Mixed-cultures **prbi**, 1235

Xylan; Acetyl groups; Autohydrolysis; Corncobs; *Eucalyptus globulus*; Hemicelluloses; Severity factor **prbi**, 1067

Xylanase; Biobleaching; *Thermomyces lanuginosus*; Bagasse pulp; Chlorine dioxide **prbi**, 567

Xylanase; Hemicellulases; *Thermomyces lanuginosus*; Aeration **prbi**, 1221

Xylanase; Xylan; Corn Fibre; *Fusarium proliferatum*; Xylobiose; Xylooligosaccharide **prbi**, 1279

Xylan; Xylanase; Corn Fibre; *Fusarium proliferatum*; Xylobiose; Xylooligosaccharide **prbi**, 1279

Xylobiose; Xylanase; Xylan; Corn Fibre; *Fusarium proliferatum*; Xylooligosaccharide **prbi**, 1279

Xylooligosaccharide; Xylanase; Xylan; Corn Fibre; *Fusarium proliferatum*; Xylobiose **prbi**, 1279

Xylose; Lignocellulosics; Wheat straw; Pretreatments; Cellulase; Glucose **prbi**, 937

Yard trimmings; Microbial activities; Decomposition; Enzyme activities; Windrow composting **prbi**, 1057

Yeast dehydration; Candida utilis; Cr(VI) sorption; Chromate anions; pH value effects **prbi**, 505

Zinc; Agriculture product; Sorption; Copper; Lead; Tree fern **prbi**, 1421

Zymomonas mobilis; Immobilization; Levan; Levansucrase; Titanium-activated magnetite **prbi**, 339